#### VAN WATERS & ROGERS INC.

REVISION PART B

Van Waters & Rogers - Cleveland/Bedford Heights Bedford Heights, Ohio Facility

EPA I.D. No. OHDU71107791

Revised
December 22, 1986

December 22, 1986 Mr. Thomas E. Crepeau, Director Ohio Environmental Protection Agency Division of Solid and Hazardous Waste Management Page 2

Should you have questions or comments with regard to these revised applications, please feel free to contact Mr. Tom Nisler, VW&R Region Environmental Representative, at (312) 573-4300 in Oak Brook, Illinois; Dr. William Young, of Harding Lawson Associates, Van Waters & Rogers' environmental consultants, at (713) 789-8050 in Houston, Texas; or me.

Your cooperation during the transfer process is greatly appreciated.

Sincerely,

Scott R. Vokey

SRV:sve

Enclosures: as stated

cc: Tom Nisler, VW&R, Oak Brook, w/enclosures
Dr. William Young, HLA, Houston, w/enclosures

Ohio Desk, U.S. EPA, Region V, RCRA Activities, Waste Management Division, w/enclosures

Cliff Moll, VW&R, Cleveland/Bedford Heights, w/enclosures Ivan Byers, VW&R, Cincinnati, w/enclosures

6388-310: Cincinnati - Cleveland/Bdfrd. Hts.

### SHIDLER McBROOM GATES & LUCAS

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Seattle

3500 First Interstate Center Seattle, Washington 98104 \*phone (206) 223-4600 \*copier (206) 622-5110 \*telex: 29-2988

#### VIA FEDERAL EXPRESS

December 22, 1986

Mr. Thomas E. Crepeau, Director
Ohio Environmental Protection Agency
Division of Solid and Hazardous Waste Management

Box 1049 261 E. Broad Street Columbus, Ohio 43215

Reference: Transfer of McKesson Chemical Company's RCRA Status to Van Waters & Rogers Inc. for the Cincinnati and Cleveland/

Bedford Heights Facilities:

Cincinnati: OHD002899847; Ohio No: 05-31-0629

Cleveland/Bedford Heights: OHD071107791



We are counsel for Van Waters & Rogers Inc., the wholly-owned subsidiary of Seattle-based Univar Corporation, which acquired substantially all of the assets of McKesson Chemical Company (MCC), a division of San Francisco-based McKesson Corporation, on or about October 31, 1986. Your file will also reflect correspondence from our co-counsel, Graham & James of San Francisco.

Records previously filed with your agency include:

- 1. Amended Part A applications dated October 31, 1986;
- 2. Amended Forms 8700-12 dated October 31, 1986;
- 3. Part B applications; as well as
- 4. Executed Certificates of Insurance to cover closure costs and liability for sudden accidental occurrences.

Pursuant to a request from you, we herewith enclose amended versions of the Part B application and certification filed in the name of Van Waters & Rogers Inc. to conform with the Forms 8700-12, Part A application and financial assurance documentation previously provided. We are also enclosing a highlighted version of the Part B application to facilitate your review and approval.



505 Honeywell Center 600 108th Ave. N.E. Bellevue, Washington 98004 Telephone (206) 453-0300 Telecopier (206) 455-9166

### TABLE OF CONTENTS

## Bedford Heights, Ohio (Ohio)

		TAE
Preamble		1
Certification		2
Part A Applicat	ion	3
Part B Applicat	ion	
	General Description of Facility	4
	Chemical and Physical Analyses	5
	Waste Analysis Plan	6
	Security	7
	Inspection Schedules, Equipment Requirements, and Prevention Measures	8
	Contingency Plan	9
	Procedures, Structures, and Equipment	10
	Prevention of Ignition and Reaction	11
	Traffic Pattern	12
	Facility Location Information	13
	Training Program	14
	Closure Plan	15
	Closure Cost Estimates	. 16
	Financial Responsibility	17
	Topographic Map	18
	Other Federal Laws	19
	Containment and Container Practices	20
	Copy of Contingency Plan	21
Correspondence		22

#### PREAMBLE

Van Waters & Rogers Inc. (formerly DSW, Inc.), a Washington corporation based at 1600 Norton Building, Seattle, Washington 98104 with its operating headquarters at San Mateo, California, acquired this facility on or about October 31, 1986. At the time of acquisition, DSW, Inc. became a wholly-owned subsidiary of Univar Corporation, a Delaware corporation. DSW, Inc. in turn changed its name to Van Waters & Rogers Inc. (VW&R) and is operating this facility under the name Van Waters & Rogers Inc., which is the wholly-owned chemical distribution subsidiary of Univar Corporation.

The procedures, policies, and personnel in place for McKesson Chemical Company (the prior operator), including the existing arrangement between this facility and McKesson Envirosystems for waste analysis and recycling, will be maintained pending further review by the new owner. No material changes in these aspects of the operations which require prior notification to appropriate agencies shall be made until such notification has been made and/or other appropriate approvals obtained in accordance with all applicable laws, rules, and regulations.

Unless indicated otherwise, employee training conducted prior to October 31, 1986 was conducted by McKesson Chemical Company. VW&R has retained the McKesson Chemical training personnel and will continue to use the McKesson Chemical training program.

This permit application is identical to that originally submitted by McKesson Chemical Company except for facility name and ownership changes. Site personnel lists and closure cost estimates have also been updated.

Prior correspondence by McKesson Chemical Company which is relevant to this revised application, such as contingency plan letters and the most recent closure cost updates, is included in this application. All existing agreements relevant to the Contingency Plan will be maintained. The appropriate agencies are being notified of this change in ownership. Original maps, drawings, etc. are on file with the agency and, since no changes to these documents are necessary, they have not been resubmitted in this application.

Cleveland/Bedford Heights, Ohio EPA ID No. OHDO71107791

Van Waters & Rogers Inc.

Certification
[40 CFR Sec. 122.6(a)(d)]

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

This statement applies to the filing in behalf of VW&R.

Date: December 23, 1986

Signature:

James W. Bernard, President

Van Waters & Rogers Inc.

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## U.S. ENVIRONMENTAL PROTECTION AGENCY HAZARDOUS WASTE PERMIT APPLICATION Consolidated Permits Program

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TT	PROCESSES	(continued)

SPACE FOR ADDITIONAL PROCESS CODES OR FOR DESCRIBING OTHER PROCESSES (code "TO4"). FOR EACH PROCESS ENTERED HERE INCLUDE DESIGN CAPACITY.

references and according to the first property of exemplants from the first business of the contract of

- IV. DESCRIPTION OF HAZARDOUS WASTES

  A. EPA HAZARDOUS WASTE NUMBER Enter the four-digit number from 40 CFR, Support D for each listed hazardous waste you will handle. If you handle hazardous wastes which are not listed in 40 CFR, Subpart D, enter the four-digit number(s) from 40 CFR, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in column A estimate the quantity of that weste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste/s/ that will be handled which possess that characteristic or contaminant,
- C. UNIT OF MEASURE For each quantity entered in column 8 enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE CODE	METRIC UNIT OF MEASURE CODE
POUNDS	KILOGRAMSK
TONS	METRIC TONS

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

#### D PROCESSES

1. PROCESS CODES:

For listed hexardous wests: For each listed hexardous wests entered in column A select the code(s) from the list of process codes contained in Item III to indicate how the waste will be stored, treated, and/or disposed of at the facility. For non-listed hazardous wastes: For each characteristic or toxic contaminant entered in column A, select the code/s/ from the list of process codes

contained in item ill to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous westes that possess that characteristic or toxic contaminant.

Note: Four spaces are provided for entering process codes, If more are needed: (1) Enter the first three as described above; (2) Enter "000" in the extreme right box of Item IV-D(1); and (3) Enter in the space provided on page 4, the line number and the additional code(s).

2. PROCESS DESCRIPTION: If a code is not fisted for a process that will be used, describe the process in the space provided on the form,

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZALIDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

- 1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns 8,C, and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.

  2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter
- included with above" and make no other entries on that line.
- 3. Repeat step 2 for each other EPA Hazardous Waste Number that can be used to describe the hazardous weste."

EXAMPLE FOR COMPLETING ITEM IV (shown in line numbers X-1, X-2, X-3, and X-4 below) — A facility will treat and dispose of an estimated 900 pounds per year of chrome snavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

A. EPA		C. UNIT	D. PROCESSES						
HAZARD.	B. ESTIMATED ANNUAL QUANTITY OF WASTE	OF MEA- SURE (enter code)	1. PROCESS CODES (enter)	2. PROCESS DESCRIPTION (if a code is not entered in $\mathcal{D}(1)$ )					
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-2 D 0 0 2	400	P	T 0 3 D 8 0						
X-3 D 0 0 1	100		T 0 3 D 8 0						
X-1  D  0   2   2				included with above					

Continued from page 2.

NOTE: Photocopy this page before completing if you have more than 26 wastes to list.

Form Approved OM8 No. 158-S80004

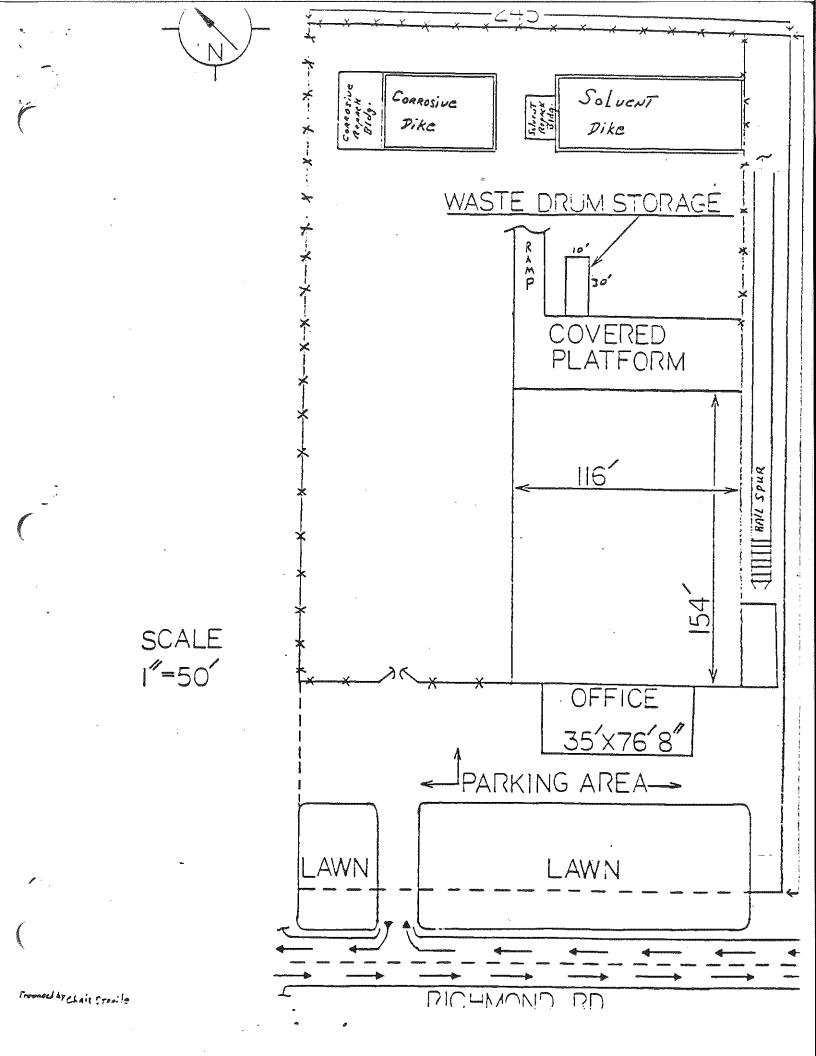
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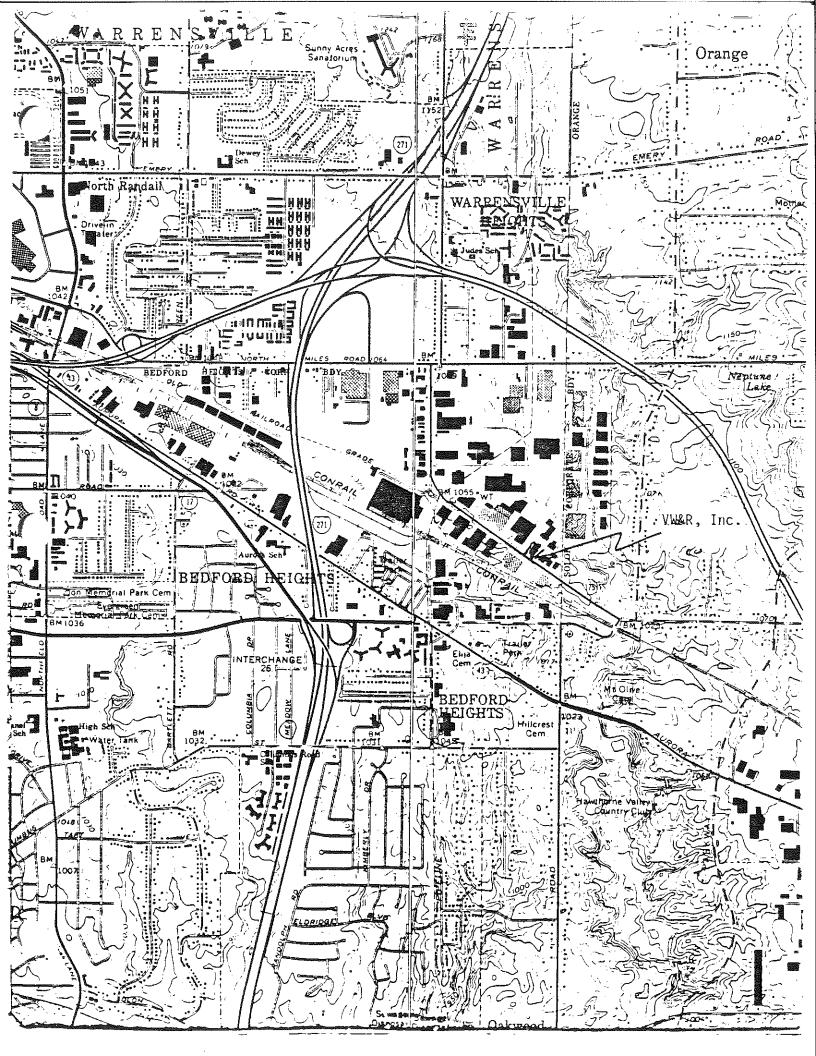
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IV. DESCRIPTION OF HAZARDOUS WASTES (continued use this space to list additional process	INCU/	N PAGE 3.	
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EPA I.O. NO. (enter from page 1)  5 0 H D 0 7 1 1 0 7 7 9 1 6			
All existing facilities must include in the space provided on pag	e 5 a scale drawing of the facility (see	instructions for more detail).	
	· service of the serv		
All existing facilities must include photographs (aerial creatment and disposal areas; and sites of future storage	or ground—level) that clearly deli e, treatment or disposal areas <i>(se</i>	ineate all existing structures; e e instructions for more detail)	existing storage,
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15 16 57 18 50 - 71	ed in Section VIII on Form 1, "Gener	ral Information", place an "X" in	the box to the left and
VIII. FACILITY OWNER  A. If the facility owner is also the facility operator as lists	ed in Section VIII on Form 1, "Gener		the box to the left and
VIII. FACILITY OWNER  A. If the facility owner is also the facility operator as listed skip to Section IX below.	ed in Section VIII on Form 1, "General of in Section VIII on Form 1, comple	te the following items:	the box to the left and
VIII. FACILITY OWNER  A. If the facility owner is also the facility operator as liste skip to Section IX below.  8. If the facility owner is not the facility operator as liste in NAME OF FACILITE  Van Waters & Rogers, Inc.	ed in Section VIII on Form 1, "General of in Section VIII on Form 1, comple	te the following items:	ONE NO. (area code & 10.)
VIII. FACILITY OWNER  A. If the facility owner is also the facility operator as listed skip to Section IX below.  8. If the facility owner is not the facility operator as listed to the facili	ed in Section VIII on Form 1, "General of in Section VIII on Form 1, comple	te the following items:	ONE NO. (area code & no.)
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VIII. FACILITY OWNER  A. If the facility owner is also the facility operator as liste skip to Section IX below.  8. If the facility owner is not the facility operator as liste in NAME OF FACILITE  Van Waters & Rogers, Inc.  3. STREET OR P.O. BOX  F 1600 Norton Building	ad in Section VIII on Form 1, "General of the Section VIII on Form 1, completely is LEGAL OWNER  A. CITY OR TO Seattle  Tamined and am familiar with the ividuals immediately responsible	2 PH 2 0 ( 3 13 134  DWN S.ST.  W A  Information submitted in the for obtaining the information	S and all attached of the first the
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VIII. FACILITY OWNER  A. If the facility owner is also the facility operator as liste skip to Section IX below.  8. If the facility owner is not the facility operator as liste I. NAME OF FACILITY  Yan Waters & Rogers, Inc.  3. STREET OR P.O. BOX  F 1600 Norton Building  IX. OWNER CERTIFICATION  I certify under penalty of law that I have personally ex documents, and that pased on my inquiry of those indissubmitted information is true, accurate, and complete. Including the possibility of fine and imprisonment.  A. NAME (print or type)  James W. Bernard, Vice President	A. CITY OF TO Seattle	2 PH 2 0 ( 13 13 13 13 13 13 13 13 13 13 13 13 13 1	SIGNED  The sand all attached in the false information, and all attached in the false information, and all attached in the false information, and all attached in the false that the false information, and all attached in the false that the information in the false informa
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VIII. FACILITY OWNER  A. If the facility owner is also the facility operator as listed skip to Section IX below.  8. If the facility owner is not the facility operator as listed in NAME OF FACILITY of the facility owner is not the facility operator as listed in NAME OF FACILITY of FACILITY in NAME OF FACILITY of Certify under penalty of law that I have personally exponents, and that oased on my inquiry of those indicated information is true, accurate, and complete. Including the possibility of fine and imprisonment.  A. NAME (print or type)  James W. Bernard, Vice President of Italians o	A. CITY OF TO Seattle	2. PH 2 0 6 3. ST.  W A  information submitted in this for obtaining the information cant penalties for submitting  C. DATE  Octobe  information submitted in this for obtaining the information cant penalties for submitting  C. DATE	Sand all attached in Judice 1986  1981 0 4  19

V. FACILITY DRAWING (see page )

Note: SEE ATTACHED SITE PLAN AND LOCATION MAP.





Van Waters & Rogers, Inc.

General Description of Facility

(40 CFR Sec. 122.25(a)(1))

Van Waters & Rogers, Inc. (hereafter referred to as VW&R)

leases and operates a distributing
facility in the City of Bedford Heights, Ohio, located at

26601 Richmond Road. The legal description of its location is as follows:

"Situated in the City of Bedford Heights, County of Cuyahoga and State of Ohio, being a part of Original Lot No. 20 in Bedford Township, bounded and described as follows:

Road, 50 feet wide, distant 969.61 feet as measured along said Northerly line of Richmond Road from its intersection with the Easterly line of the Village of Bedford Heights, said point being the Southeasterly corner of land conveyed or about to be conveyed to Arrow Sash, Doors & Plywood, Inc.

- (1) Thence North  $36^{\circ}\,03^{\circ}\,07^{\circ}$  East along the Easterly line of land conveyed or about to be conveyed as aforesaid, 450 feet;
- (2) Thence South 53° 56' 53" East, parallel to Richmond Road, 245 feet to the West line of lands conveyed by deed from Erie Land and Improvement Company of Pennsylvania to Larry Davis, recorded in Volume 10131, at Page 46 of Cuyahoga County Deed Records;
- (3) Thence South  $36^{\circ}$  03' 07" West, along said Westerly line of lands conveyed as aforesaid to Larry Davis, 450 feet to said

DEULEZ

Van Waters & Rogers, Inc.

General Description of Facility
(40 CFR Sec. 122.25(a)(1))

Page 2.

Northerly line of Richmond Road;

(4) Thence North 53° 56' 53" West, along said Northerly line of Richmond Road, 245 feet to the point or place of beginning, containing 2.531 acres more or less, but subject to all legal highways."

 ${\sf VW\&R}$  is a nationwide distributor of various industrial chemicals. McKesson Envirosystems

operates a number of recycling plants across the country and functions as a natural partner to the distribution network which  $VW\&R \qquad \qquad \text{maintains.}$ 

The recycling of spent solvents is but one of the services DSW, Inc. offers to its customers. Many customers who employ our reclaiming services are those who purchased the virgin product from us in the first place. In this manner, VW&R provides a means for our customers to properly manage their wastes and to conserve resources.

The building in Bedford Heights consists of a masonry, steel-framed building of approximately 20,500 square feet. Of this total area, approximately 2,700 square feet is office and the remainer is warehouse storage. The area designated and designed for hazardous waste storage consists of 300 square feet, measuring 10 feet by 30 feet, located in the outside yard area adjacent to the building, accessible from the building for forklift handling of drums from the dock unloading area by means of a concrete ramp. Overall yard area is about 110,000 square

Van Waters & Rogers, Inc.

General Description of Facility
(40 CFR Sec. 122.25(a)(1))
Page 3.

feet, of which approximately 86,000 square feet is fenced in.

This facility will be utilized by VW&R as a temporary storage facility for various chemical solvents destined for recycling. The operation followed is one of picking up a customer's (generator's) spent materials, bringing the material back to the VW&R facility, and placing it into temporary storage until a full truckload of various customer's materials are accumulated, and then reshipping the materials to the recycling center. The containers in which these spent materials are shipped to our facility are of a 55 gallon capacity meeting all DOT specifications for the material being shipped in them. All materials are received, stored, and reshipped in the same container.

The designated storage area for waste materials is to be a bermed rectangle of concrete, 10 feet by 30 feet by 6 inches. The entire outside storage area lying adjacent to the building is surrounded by a 6 foot high chain link fence with the top arms of posts being set at a 45 degree angle from vertical and holding 3 strands of barbed wire extending 1 foot above the top of the chain link fencing.

All movements and handling of materials designated as hazardous wastes at the facility shall be undertaken in accordance with operational plans as outlined in this application. No treatment, processing, or disposal of hazardous wastes will take place at this location.

TEC 22 1986.

Van Waters & Rogers, Inc. General Description of Facility (40 CFR Sec. 122.25(a)(1)) Page 4.

Experience at other branches handling these types of spent solvent streams indicate the following types of industries are served:

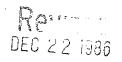
Metalworking: A wide variety of metalworking and machinery manufacture operations require a final degreasing step in order to remove lubricating oil, etc.: lathing, grinding, cutting, stamping. The chlorinated solvents are the work-horses of this business.

<u>Electronic</u>: Circuit boards commonly require a de-oiling step to remove lubricants, solder fluxes, etc. Although the chlorinated solvents are effective, the fluorinated counterparts are generally preferred.

Ink, Adhesives: A wide variety of oxygen — containing solvents are used in cleaning out mixing vats, printing rolls, transfer containers, piping, etc.

Other Industries from which spent solvent streams have been obtained include pharmaceutical, photographic, electrical, textiles, rubber, and plastics.

An engineering drawing of this facility's physical layout, certified by an Ohio — licensed engineer, follows.



Van Waters & Rogers, Inc.

General Description of Facility
(40 CFR Sec. 122.25(a)(1))

Page 5.

This plan, dating from the time of construction of the facility, locates the active drains to the storm sewer. The 18 inch square trench drain between the two tank areas has been paved over. The proposed hazardous waste storage area is located on a high point of the yard. Essentially the entire yard is now paved with concrete, eight inches thick, with enough load-bearing capacity to handle trucks with 80,000 lbs. gross weight.

There are no injection or withdrawal wells on the property. There are no flood controls, run-off controls, or drainage carriers other than the stormwater drainage system and ditches noted on the plot plan. Fire controls (Fire hydrants) are noted on the plan.

#### Van Waters & Rogers Inc.

Chemical and Physical Analyses
(40 CFR Sec. 122.25(a)(2))

VW&R and McKesson Envirosystems

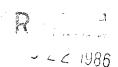
requires all generators who wish to employ the Company's services to provide data regarding the chemical make-up of the generators' waste stream before pick-up of the material is initiated.

Both the VW&R branch storing spent solvents, and the McKesson Envirosystems facility which will recycle the material, shall be provided appropriate data from the information furnished by the customer (generator), which will have been reviewed and evaluated by the technically trained people at the Fort Wayne, Indiana, headquarters of McKesson Envirosystems.

A full description of the procedures and sequence of events pertaining to the accumulation of data and analytical information made available and kept on file at the storage facility before approval to accept materials, is outlined in the Waste Analysis Plan in the next Section. This procedure describes fully the operation followed in developing and disseminating the necessary information to assure that all facilities handling the material have adequate information available to properly manage a given waste stream.

VW&R shall provide to off-site generators wishing to utilize its services any requested proof of appropriate permits to be allowed to handle their particular waste streams. Generators shall also be offered the opportunity to take a tour of any company facility, as well as the actual recycling plants, to allow them an opportunity to assure themselves of compliance of these facilities.

<sup>\*\*</sup> or another commercial laboratory using US EPA approved testing methods and procedures



<sup>\*</sup> or another permitted facility

Van Waters and Rogers, Inc. 26 July 1988

#### CHAPTER C

### WASTE CHARACTERISTICS WASTE ANALYSIS PLAN

(40 CFR PART 264.13)

#### C-1: CHEMICAL and PHYSICAL ANALYSIS

Van Waters and Rogers, Inc. requires potential customers (off-site generators) who wish to employ our services to handle their waste streams to submit to us a Waste Survey Form and a complete laboratory analysis of each of their waste streams to determine the nature and quantity of waste involved. If the laboratory analysis supplied by the off-site generator is inadequate, a sample of the current waste stream will be required. The sample will be sent to a selected permitted treatment/disposal facility for a complete analysis. The completed Waste Survey Form and laboratory analysis are used by Van Waters and Rogers, Inc. and the selected permitted treatment/ disposal facility to complete arrangements for transport, storage, and treatment of the waste. Only waste streams that can be properly handled by Van Waters and Rogers, Inc. and the permitted treatment/disposal facility are accepted.

The types of hazardous waste that will be stored at the Branch are listed below:

#### WASTE DESCRIPTION

#### WASTE CHARACTERISTICS

Spent halogenated solvents (F001) Toxic
Spent halogenated solvents (F002) Toxic
Spent non-halogenated solvents (F003) Ignitable

# Wastes Anticipated To Be Handled in Dryms At Fac ity Van Waters & Rogers Inc.

Chemical	Hazard	Basis For Hazard Designation
Tetrachloroethylene	Toxic	Listed waste FOO1, FOO2
Trichloroethylene	Toxic	Listed waste FOOl, FOO2
Methylene Chloride	Toxic	Listed waste FOOl, FOO2
1,1,1 Trichloroethane	Toxic	Listed waste FOO1, FOO2
Carbon Tetrachloride	Toxic	Listed waste FOOl
Chlorinated Fluorocarbons	Toxic	Listed waste F001, F002
Xylene	Ignitable	Listed waste F003
Acetone	Ignitable	Listed waste F003
Ethyl Acetate	Ignitable	Listed waste F003
Ethyl Ether	ignitable	Listed waste F003
Methyl Isobutyl Ketone	Ignitable	Listed waste F003
n-Butyl Alcohol	Ignitable	Listed waste F003
Cyclohexanone	Ignitable	Listed waste F003
Methanol	Ignitable	Listed waste F003
Toluene	Toxic, Ignitable	Listed waste FOOS
Methyl Ethyl Ketone	Toxic, Ignitable	Listed waste F005
İsobutanol	Toxic, Ignitable	Listed waste F005

The above will also be expected in the form of blends with each other, still in drums.

Spent non-halogenated solvents (F005) Non-specific ignitable wastes (D001) Non-specific corrosive wastes (D002) Discarded residues (U001 - U239) Toxic and Ignitable Ignitable Corrosive mixed characteristics

These are EPA RCRA listed hazardous wastes from non-specific sources exhibiting the hazardous characteristics of toxicity, ignitability, or corrosivity. All of the hazardous wastes to be stored at this facility will be containerized (55 gallon drums) and kept in a hazardous waste management unit with a secondary containment system.

#### C-2: WASTE ANALYSIS PLAN

This Branch of Van Waters and Rogers, Inc. will function as a temporary storage facility for the short term storage of containers of hazardous waste. The primary source of the waste streams will be customers to whom Van Waters and Rogers, Inc. has previously supplied the same material in its virgin state. Drums of hazardous waste will be accumulated at this facility until enough (60-70 drums) are collected to make shipment to a permitted waste treatment facility economical. Typically a drum of hazardous waste will remain in storage for 60 days or less. The following discussions detail our waste analysis plan.

#### C-2a: PARAMETERS and RATIONAL

Van Waters and Rogers, Inc. requires a current chemical and physical analysis of off-site generators' waste streams for evaluation prior to our agreeing to haul and store the generator's waste. The sample is to be accompanied by a Waste Survey Form (a typical one is shown in Exhibit C-1). The

information supplied on the Waste Survey Form will be certified by the off-site generator. The form helps to further characterize the chemical and physical nature of the waste stream. The parameters that will be measured and the rationale for their selection are listed below. Examples of typical test results are shown in Exhibit C-2.

The following parameters will be used to determine the exact contents of the containerized wastes, their economic potential when recycled, and the proper method for the safe storage and handling of the various waste streams:

<u>PARAMETER</u>	TEST METHOD	PURPOSE  To confirm  the identity and  amount of  recoverable components				
Assay	Gas Chromatograph					
Specific gravity	Balance	Useful in product identity. Permits conversion of volume to weight				
Water	Karl Fischer	Contamination				
Flash Point	ASTM D56 or D93	Ignitability				
рH	pH Meter	Corrosivity				

Laboratory reports will be available prior to any drums of hazardous waste being received from an off-site generator.

Laboratory analyses will be repeated whenever:

- 1. It is deemed necessary to assure the accuracy of the original analyses and the current status of the waste stream.
- 2. Whenever the off-site generator's process changes.

3. A manifest discrepancy is detected.

#### C-2b: TEST METHODS

All analyses required for characterization of a hazardous waste stream will follow the analytical procedures defined in SW-846, "Test Methods for Evaluating Solid Waste". Van Waters and Rogers, Inc. does not operate its own testing laboratories, instead, the company will rely on the analytical capabilities of the permitted treatment facilities utilized for treatment/disposal of hazardous waste. They are fully equipped with laboratory facilities to conduct all testing required by State and Federal regulations.

#### C-2c: SAMPLING METHODS

The method to be used for taking samples from containers of hazardous waste is contained in "Standard Procedures for Sampling Waste Containers". Van Waters and Rogers, Inc. will not take samples for off-site generators or treatment facilities used to recycle hazardous waste; however, we will require that the methods and equipment used by those obtaining samples for us meet the requirements of Federal and State standards. Van Waters and Rogers, Inc. provides guidance on the safe sampling of waste streams. The guidelines are shown in Exhibit C-3.

#### C-2d: FREQUENCY of ANALYSIS

Comparison of the analysis performed by the permitted treatment/disposal facility on each shipment of waste with that of the original analysis of the off-site generator's waste will

occur continuously. If a waste stream has not been produced for more than one year since it was originally accepted for storage by Van Waters and Rogers, Inc. and treatment/disposal by a permitted treatment/disposal facility, then a new complete analysis of the waste stream is required. This includes a new waste survey form and a complete laboratory analysis of a sample from the waste stream.

#### C-2e: ADDITIONAL REQUIREMENTS for WASTES GENERATED OFF-SITE

Pre-approval analysis of all waste streams will be required from all generators, either from their own selected laboratory or through the laboratory facilities of the permitted treatment/disposal facility selected by Van Waters and Rogers, Inc. Each generator doing business with Van Waters and Rogers, Inc. will be required to certify that the waste being offered for handling are only those approved for handling in our permit, and that they do not contain any unacceptable materials.

Unacceptable materials include pesticides, carcinogens, radioactive materials, PCB's and poisons. Drums of hazardous waste will be picked-up by Van Waters and Rogers, Inc. and stored at the hazardous waste storage facility only if the information on the hazardous waste label, the information on the manifest, and the information on the initial waste survey form and complete analytical analysis all agree with on another.

Prior to pick-up and storage of a shipment of hazardous waste, Van Waters and Rogers, Inc. requires off-site generators whose waste streams have received prior approval to submit a copy

of the manifest for each waste stream being offered to us for transport and/or storage. The manifest is reviewed for completeness and to make sure that each waste listed is one that has been approved by us for that off-site generator. Each waste listed on the manifest must be one for which we have a complete profile. The DOT shipping name and the EPA hazardous waste code on the manifest must match the names and codes listed on the preapproval waste survey form and analysis. If they do, Van Waters and Rogers, Inc. will approve pick-up of the waste containers.

Before loading waste containers onto Van Waters and Rogers, Inc. trucks or before waste containers are accepted for storage at our facility if brought by common carrier, each container is checked for proper labeling; waste streams restricted from land disposal must be accompanied by a land disposal restriction statement; container counts must match the counts listed on the manifest; and containers must be in good condition. A copy of the checklist used to verify approved waste pick-ups is shown in Exhibit C-4. Containers of hazardous waste accepted for storage will have the date they entered storage stenciled on the side of the drum.

Each generator will be required to certify that hazardous wastes restricted from land disposal in accordance with 40 CFR Part 268 are labeled accordingly and accompanied by a restricted waste notification statement and/or a certification that the waste meets applicable treatment standards. A sample notification form is shown in Exhibit C-5. Land disposal restrictions require each generator to furnish a Land Disposal

Restriction Notification Statement with each manifest of hazardous waste that is restricted from land disposal. The notification also includes the treatment standards applicable to the restricted waste if land disposal is proposed. In turn, Van Waters and Rogers, Inc. will furnish a Land Disposal Restriction Certification to the permitted treatment/disposal facility.

If Van Waters and Rogers, Inc. receives any waste restricted from land disposal that a generator states meets the treatment standards of 40 CFR Part 268.41 or 268.43, the manifests for these wastes must be accompanied by a certification and test results prepared by the generator that prove the waste constituents in the waste stream do not exceed the values shown in the appropriate table for the waste stream in question.

Similarly, any "soft hammer" waste streams received by Van Waters and Rogers, Inc. that are proposed for land disposal must be accompanied by a demonstration that treatment is not practical or available to the generator.

In order to assure that the hazardous wastes will be handled properly during transport and storage, Van Waters and Rogers, Inc. recognizes the need to verify that the wastes we will be accepting are what the off-site generator says they are. Ideally this would involve a complete chemical and physical analysis of each container of waste before it is placed on our trucks for transport away from the off-site generator's facility.

Unfortunately, this is not practical. An alternative would be some type of analysis done after the wastes have been transported

to our storage facility. The analysis could is a complete one or an abridged versin consisting of select indicator parameters ("fingerprinting"). The one drawback to sampling is the danger involved in the extra handling of the hazardous waste while obtaining and analyzing samples. Van Waters and Rogers, Inc. does not have extensive laboratory capabilities at its facilities, making sampling and analysis a somewhat risky adventure. It would serve only to increase the possiblity of an accidental release and exposure of hazardous wastes to workers and the environment.

Van Waters and Rogers, Inc. verifies that the containers of waste we will be transporting and storing are what the off-site generator claims they are by comparing the analysis of the off-site generator's initial waste stream with that of the analysis performed by the treatment/disposal facility on each shipment of waste received for treatment. Obviously, this will occur after we have already transported and stored the waste, but this method is safe, accurate, and informative.

A sample of the Waste Verification Form used to determine if the current hazardous waste stream remains acceptable is shown in Exhibit C-6. If a significant discrepancy in the chemical and physical properties between the initial waste stream and the current waste stream is discovered, the off-site generator will be contacted immediately and required to document the reasons for the altered waste stream. Arrangements also will be made to obtain samples for a new complete analysis of the chemical and physical properties of the off-site generator's waste. This

method will maximize safety and minimize the handling of unacceptable wastes. Reports on waste verification will be retained as a part of the Branch operating record along with the Waste Survey Form, the initial laboratory analysis, the most recent laboratory analysis, and other documents.

### C-2f: ADDITIONAL REQUIREMENTS for IGNITABLE, REACTIVE or INCOMPATIBLE WASTES

This facility stores toxic, corrosive and ignitable wastes in its hazardous waste storage area. These wastes are not stored near ignition sources or heat producing sources, and "no smoking" signs are conspicuously placed around the area. Van Waters and Rogers, Inc. does not repack (unless a drum fails during storage) or consolidate containers of waste. Incompatible wastes such as reactives and corrosives, or ignitables and corrosives will be separated during storage by a berm and by inert materials. This significantly reduces the possibility of exposing ignitable wastes to ignition sources and promoting reactions between incompatible wastes.

# Van Waters & Rogers and subsidery of Univar

PPENT	MATERIA	SWASTE	<b>PRODUCTS</b>	SURVEY

OFFICE
USE ONLY

A COMPANY					EPA ID No. (Federal)			ID No. (State) Si			SIC No	
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Check the following substances which may be in the waste stream (Check one or a					nore).			EPA H	azardous W	acto		
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None of the above are in the waste stream.				☐ Waste Combustible Liquid, NOS ☐ Waste Trichlorpethylene								
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Part 1910.1001 through 1910.1018. (Check one) Yes No To the best of my knowledge, this is an accurate description of this material.					***************************************	- A ·						
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FUELS CONTROL #: 019520

PRE/SHIP ANALYSIS - COMPLETE CUSTOMER SURVEY

CUSTOMER COPY ENVIROSYSTEMS = \*

**RUN DATE 07/08/88** 

SAMPLE #: 024153

KIMBALL ELECTRONICS 1038 E. 15TH ST.

JASPER

IN 47546

FEDERAL EPA ID: INDO94205614 COUNTY: DUBOIS STATE EPA: IL.:

NATURE OF BUSINESS: PRINTED CIRCUIT BOARDS

MO. ID:

MANIFEST TO SAFETY-KLEEN

MATERIAL DESCRIPTION:

SILK SCREEN SOLVENT CLEANER

MANIFEST ADDRESS IS FACILITY

PROCESS DESCRIPTION:

SCREEN WASH

55 GALS PER MONTH

VOLUME ON HAND

55

STORAGE CAPACITY : 200 IN DRUMS SHIPPING FREQUENCY:30 DAYS IN DRUMS

COLOR LAYERS

VOLUME

: GREEN : ONE

PHYSICAL STATE: LIQUID

: LOW

VISCOSITY

WATER

XYLENES

NON-VOLATILE MATERIAL

SETTLED SOLIDS

. IQ:

RESTRICTED SUBSTANCES: NONE

D.O.T HAZARDOUS MATERIAL DESCRIPTION:

PROPER SHIPPING NAME:

WASTE FLAMMABLE LIQUID

HAZARD NO. : NA1142

TERRITORY: 5555

EPA HAZARDOUS WASTE DESCRIPTION:

NO(S): FO05

CODES: IGNITABLE

MATERIAL COMPOSITION (VOL%):

AROMATIC HYDROCARBONS

P.O. NO: AVGANIC CONVRSN

REGULATORY:

OPERATING:

HAZARD CLASS: FLAMMABLE LIQUID

TYPE OF SAMPLE: GRAB

#DRUMS:

TAKEN BY: CUSTOMER

MIN

MAX

100.0

100.0

10.0

TYPICAL

70.0

25.Q

5.0

CONTACT: LARRY POWELL COMMENT: VWR INDIANAPOLIS SALESPERSON: VAN WATERS

TITLE: FOREMAN

PHONE: 812/634-4200 DATE: 06/08/88

ANALYST: WLC REVIEWER: WLC ANALYZED: 06/30/88

CORPORATE REVIEWS:

DISPOSITION

REVIEWER

LWG

DATE

TECHNICAL:

ACCEPT ACCEPT ACCEPT

JWH JWH 07/08/88 07/08/88 07/08/88 APPROVED FACILITIES 658 SK NEWCASTLE, KY AUTH#

SK D.O.T. #: 0001002 DRUMS OR BULK

RQ WASTE FLAMMABLE LIQUID N.O.S.

FLAMMABLE LIQUID UN1993

(EPA F003)

1002

COMMENT: OK FOR CLASS A FUEL. SURVEY EPA DESCRIPTION INCORRECT..

PRICING CODE: FA

THIS SERVES AS NOTICE PER, 40CFR264.12(8), THAT THE FACILITY(IES) NOTED ABOVE HAS THE APPROPRIATE PERMITS AND IS WILLING TO RECEIVE THE MATERIAL DESCRIBED.

Exhibit C-2 (cont)

80764 - R2304

#### SAFETY-KLEEN CORP PRE/SHIP ANALYSIS - COMPLETE

RUN DATE 07/08/88

FUELS

KIMBALL ELECTRONICS

MATERIAL ANALYSIS CUSTOMER COPY \* \* ENVIROSYSTEMS \* \*

DOOR

CONTROL #: 019520 SAMPLE #: 024153

SPECIFIC GRAVITY AT 72 F 0.896

GENERAL COMPOSITION (VOL%): GENERAL ANALYSIS: TOTAL SAMPLE BY APPEARANCE COLOR

: GREEN API GRAVITY : 0.0 FLASHED AT 100 F

OUS PHASE: 0.0 % WATER CONTENT: 0.3 WT% FLAMMABILITY :

NON-VOLATILE : ORGANIC PHASE: 100.0 % 6.1 WT% BY SETAFLASH BOTTOM SLUDGE:

0.0 % PH: EXTRACT BY PAPER 7.0 RADIOACTIVITY: N.D. BOTTOM SOLID : 0.0 % VISCOSITY : <50 PCB : N.D. DDM 44

RECOVERY EVALUATION (VOL%): TOTAL SAMPLE DISTILLATE ANALYSIS:

BOTTOMS OIL : 0.0% -BOTTOMS VISCOSITY : BY 0.0

BOTTOMS NON DIL: 20.0 % BOTTOMS DESCRIPTION: DIL/DEPOSIT WATER EMULSION :

DISTILLATE : 80.0 % ESTIMATED RECOVERY : 0.0 VOL% ACID ACCEPT: WTX

FUEL EVALUATION (WTX): TOTAL SAMPLE

0.0 %

HEAT CONTENT: 17100 BTU/LB BROMINE: 0.0 % HALOGENS: 0.0 % FLUORINE: 0.0 %

ASH: 5.4 % SULFUR: 0.0 % CHLORINE: 0.1 % PHOSPHORUS: 0.0 %

VOLATILE ORGANIC COMPOSITION: TOTAL SAMPLE BY FID UNITS: WEIGHT % **XYLENES** 98.4 TOLUENE 0.3 LOW-BOILING ALIPHATIC HYDROCARBONS

0.3 MINERAL SPIRITS 0.3 LIMONENE, D-

0.3 AROMATIC HYDROCARBONS 0.2 BUTYROLACTONE, GAMMA-0.2

SUMMARY: ALCOHOLS 0.0 KETONES CHLORINATED SOLVENTS 0.0 0.0 **ESTERS** O.O ALIPHATIC HYDROCARBONS . O.6

O.6 AROMATIC HYDROCARBONS O.5 MISCELLANEOUS 98 9 INHIBITORS 0.0 DTHERS 0.0

ADDITIONAL ANALYTICAL INFO: LOW CHLORIDE FUEL

#### Exhibit C-3

#### GUIDELINES FOR SAFE SAMPLING OF DRUMS

Compare component concentrations on Waste Survey Form against the approved list and the banned list of the selected permitted TCDF. Only sample when:

- The component(s) is within maximum range and not on the banned list.
- The pH is  $\geq 2.0$  or  $\langle 12.0.$
- Any component is >3 times the maximum level (Safety-Kleen).
- Two or more components meet the mixture rule (Safety-Kleen).
- The concentrations are less than the maximum concentrations for specific components (Rollins).

Submit estimated composition of any questionable wastes to proper TSDF's technical services for safety and health screening prior to sampling.

On meeting above conditions, the generator can pull the sample:

- 1. Obtain ChemCare (TM) sample shipping package.
- 2. If pulling a liquid sample from a container, use COLIWASA sampler.
- 3. Avoid sampling in confined areas or where odors persist.
- 4. Get additional ventilation when needed.
- Make sure sampling device and sample jar are clean: remove drum bungs.
- 6. Wear disposable gloves compatible with the sample material and insert sampling device slowly with moderate force to bottom of pumpable liquid.
- Repeat Item 6 above to fill pint bottle and obtain representative sample of available drums.
- 8. Reinsert drum bungs immediately after sampling.
- 9. Promptly flush with water any part of your body that comes in contact with waste.
- 10. Promptly remove any clothing contaminated with waste.

- 11. Leave a minimum 1" airspace in top of bottle.
- 12. Clean sampling device for storage or disposal.
- 13. Complete sample labeling and insert sample jar and original waste survey form into ChemCare (TM) Sample Shipping Pack.
- 14. Ship sample and survey form directly to the selected permitted TSDF or other analytical lab.

### HAZARDOUS WASTE CHECKL T

	ator Name	e manifest Number
Date_		
BEFOR	E YOU GO	
	Make su	re you have the xerox copy of the Hazardous Waste Manifest
	Take al	ong extra copies of the Land Use Restriction Notification form
<del> </del>	Take al	ong a ChemCare agreement if this customer is on the program
AT TH	E GENERA	TOR
	On the I	<u>Manifest</u>
	]. U.s	. EPA ID# and manifest document number
**************************************	2. Page	e 1 of
	3. Gene	erator information
	4. Phor	ne
	5. Tra	nsporter
-	6. Tran	nsporter ID#
***************************************	D. Phor	ne
	9. Fac:	ility name
	10. Fac:	ility ID#
	H. Phor	ne
•	11, 12,	13, 14, I All must be filled out
	J or 15.	. If this is going to WR&R the Sample ID# must be on the manifest and each item must be marked either for recycle or disposal
	16. Name	e - Signature - Date
	Restrict	ted Waste Notification Statement
	Generato	or information
	EPA ID#	
	Manifest	t number and date
	Items l	and 3 filled out
	Back sid	de of statement marked with the type of waste

	TOOK	at the prums
	l.	Must be 17E drums
	2.	Must be clean and in good condition (no creases - minimum rust)
	3.	Check that bungs are tight and no leaks showing
	4.	No open top drums
	5.	No drums with side bungs
	6.	No cross contamination of drums (freons in flammable drums)
	Haza	ardous Waste Labels
	A.	Must be on every drum
	В.	Must be printed or typed
		Proper DOT shipping name of the product WASTE
		Generator name and address
<del></del>	•	EPA ID#
		Manifest Document Number
		UN or NA number for the product
		Accumulation start date
		EPA Waste Number (F or D)
	C.	Appropriate DOT labels (flammable diamond)
	D.	All other labels removed or obliterated
		manifested to Waste Research and Reclamation must have the sample iled clearly on the top of the drum.
If all drums	l of . G	the above items are not completed then you <u>CANNOT</u> pick up the et on the phone and call the Branch, the Area, or the Region.

### NUTIFICATION OF WASTE SUBJECT TO LAND DISPOSAL RESTRICTIONS

Generator Name:	EPA ID#	•
	City:	
	Zip:	
EPA Hazardous Waste Number: Sample Reference Number:	4.40	
Manifest Number Associated With Waste	Shipment:	
Pursuant to 40 CFR 268.7(a) and 40 CFF waste shipment contains a waste(s) that is 40 CFR 268 or RCRA Section 3004(d). T which are subject to the listed treatment	s (are) restricted under the land disposal res his shipment contains one or more of the f	strictions contained in eithe following wastes (circle one

#### WASTE (circle one)

- A) Liquid hazardous wastes having a pH less than or equal to two (2):
- E) Liquid hazardous waste including free liquids associated with any solid or sludge containing free cyanides at concentrations greater than or equal to 1000 mg/l
- C) Liquid hazardous wastes, including free liquids associated with any solid or sludge, containing the following metals (or elements) at concentrations greater than or equal to those specified below:

(circle those that apply)

- (i) Arsenic and/or compounds (as As) 500 mg/l;
- (ii) Cadmium and/or compounds (as Cd) 100 mg/l;
- (iii) Chromium (VI) and/or compounds as Cr (VI) 500 mg/l;
- (iv) Lead and/or compounds (as Pb) 500 mg/l;
- (v) Mercury and/or compounds (as Hg) 20 mg/l:
- (vi) Nickel and/or compounds (as Ni) 134 mg/l;
- (vii) Selenium and/or compounds (as Se) 100 mg/l; and
- (viii) Thallium and/or compounds (as T1) 130 mg/l.
- Liquid hazardous wastes containing polychlorinated biphenyls (PCBs) at concentrations greater than or equal to 50 ppm
- E) The hazardous wastes identified in 40 CFR 261.31 as waste codes F001, F002, F003, F004, F005, F006, F020, F021, F022, F023, F026, F027, F028, K001, K004, K008, K012, K015, K016, K018, K020, K021, K022, K024, K025, K030, K036, K037, K044, K045, K046, K047, K048, K049, K050, K051, K052, K060, K061, K062, K069, K073, K086, K099, K100, K101, K102, or K106.
- F) Wastewaters containing between 1000 mg/l and 10,000 mg/l of total halogenated organic compounds (HOC) found in Appendix III of 40 CFR 268.
- The discarded commercial chemical product wastes specified in 40 CFR 261.33(e) as Waste Codes: P001, 4, 5, 10, 11, 12, 15, 16, 18, 20, 30, 36, 37, 39, 41, 48, 50, 58, 59, 68, 69, 70, 71, 81, 82, 84, 87, 89, 92, 94, 97, 102, 105, 108, 110, 115, 120, 122, or 123.
- H) The discarded commercial chemical products specified in 40 CFR 261.33(f) as Waste Codes: U007. 9, 10, 12, 16, 18, 19, 22, 29, 31, 36, 37, 41, 43, 44, 46, 50, 51, 53, 61, 63, 64, 66, 67, 74, 77, 78, 86, 89, 103, 105, 108, 115, 122, 124, 129, 130, 133, 134, 137, 151, 154, 155, 158, 159, 171, 177, 180, 185, 188, 192, 200, 209, 210, 211, 219, 220, 221, 223, 226, 227, 228, 237, 238, 248 or 249.

#### TREATMENT STANDARD

Neutralization, and/or Solidification

Cyanide Destruction Solidification

Metals Recovery Solidification

Incineration, high efficiency boiler, other thermal treatment

Circle all applicable constituents or attached Tables CCW and CCWE found in the waste

Incineration, Carbon Absorption, Steam Stripping, Solvent Extraction, Other

No land disposal allowed unless the generator provides EPA Regional Administrator with "Soft Hammer" certification as to no practible alternative to land disposal.

No land disposal allowed unless the generator provides EPA Regional Administrator with "Soft Hammer" certification as to no practible alternative to land disposal.  The hazardous wastes identified by EPA in 40 CFR 261.31 as Waste Codes F007, F008, F009, F019, K011, K013, K014, K017, K031, K035, K084, K085. No land disposal allowed unless the generator provides EPA Regional Administrator with "Soft Hammer" certification as to no practible afternative to land disposal.

- J) Deadline Extensions Certain LDR restricted wastes are permitted to be placed in a land disposal unit after the deadline provided they meet the right condition. Restricted wastes which qualify for a deadline extension are as follows:
  - 1) November 8, 1988 for the following wastes:
    - i) F-solvents from small quantity generators.
    - ii) all F-solvents from CERCLA or RCRA corrective actions,
    - iii) 1% F-solvent mixtures
    - iv) the treatment residues from i, ii, iii above.
    - v) F-dioxin wastes,
    - vi) non-wastewater liquid HOC >1000 mg/l
    - viii) HOC >1000 mg/l which is non-liquid, which is not contaminated soil or debris, and which is not from a CERCLA site or RCRA corrective action.
  - 2) July 8, 1989 for the following wastes:
    - all liquid and non-liquid HOC waste not previously banned except contaminated soil or debris from a CERCLA response or RCRA corrective action.
  - 3) May 8, 1990 for the following wastes:
    - all First-third waste for which treatment standards have not been set (i.e., soft-hammer wastes).
  - 4) August 8, 1990 for the following wastes:
    - KO48, KO49, KO50, KO51, KO52, KO61, [ 15% zinc], KO71,
    - First-Third wastes which are contaminated soil and debris, and have treatment standards based on incineration.
  - 5) November 8, 1990 for the following wastes:
    - F-solvents, F-dioxins, and HOC which is contaminated soil

The most recent copy of waste analysis or a description of the knowledge upon which this notification is based is attached.

I hereby certify that all information submitted in this and all associated documents is complete and accurate to the best of my knowledge and information.

Signature	Title	Date
Telephone Number		

# Table CCWE Constituent Concentration in Waste Extract 40 CFR 268.41(a)

<b>1</b> 0082000880118280008201008201008180008800088000880008€0008	Concentratio	n (in mg/l)
	Wastewaters	All other
F001-F005 spent solvents	containing	spen!
•	spent	solvent
	solvents	wastes
Acetone	0.05	0.59
n-Butyl alcohol	5.0	5.0
Carbon disulfide	1.05	4.81
Carbon tetrachloride	.05	.96
Chlorobanzene	.15	.05
Cresols (and cresylic acid)	2.82	.75
Cyclohexanone	.125	.75
1,2-Dichlorobenzene	.65	.125
Ethyl acetate	.05	.75
Ethylbenzene	.05	.053
Ethyl other	.05	.75
faobutanol	5.0	5.0
Methanol	.25	.75
Methylene chloride	.20	.96
Methylene chloride (from the	1	
pharmaceutical industry)	12.7	.96
Methyl ethyl ketone	0.05	0.75
Methyl isobutyl ketone	0.05	0.33
Nitrobenzene	0.66	0.125
Pyridine	1.12	0.33
Tetrachioroethylene	0.079	0.05
Toluene	1.12	0.33
1,1,2-Trichlore -		
1.2,2-Trifluoroethane	1.05	0.96
1,1,1-Trichloroethane	1.05	0.41
Trichioroethylene	0.062	0.091
Trichlorofluoromethane	0.05	0.96
Kylene	0.05	0.15
	A	

F006 1 Ta														ıl:	84	•			Concentration (#1 mg/l)
Cadmium																			0.066
Chromiun																			5.2
Lead							٠.											.1	0.51
Nickel .					·							ĺ	Ĺ						0.32
Silver																			0.072
Cyanides	1	T	o	ta	al	ì											•	1	Reserved

'Reserved

F020-F023 and F026-F028 dioxin containing wastes	Concentration (in mg/l)
HxCDD-	
All Hexachlorodibenzo-p-dioxins	1 000
HxCDF-	,,,
All Haxachlorodibenzofurans	1 000
PeCDD-	• •
All Pentachlorodibenzo-p-dioxins	1 ppb
PeCDF-	
All Pentachlorodipenzolurans	1 000
TCDD-	
All Tetrachlorodibenzo-p-dioxins	1 ppb
TCDF-	
All Tetrachlorodibenzoturans	1 500
2.4.5-Trichlorophenol	0.05 ppm
2.4.6-Tetrachiorophenol	0.05 ppm
2.3,4.6-Tetrachiorophenol	0.10 ppm
Pentachiorophenol	0.01 ppm

K001 nonwastewaters (see also Table CCW in §268 43)	Concentration (an mg/l)
Lead	0.5
	Y
K022 nonwastewaters (see also Table CCW in §268.43)	Concentration (in mg/l)
Chromium (Total)	5.2 0.3
KQ46 nonwasiewaters	Concentration
(Nonreactive Subcategory)	(in mg/l)
Lead	0.10
K048, K049, K050, K051 and K052	·····
nonwastewaters (see also Table CCW in §268.43)	Concentration (en mg/l)
Arsenic	0.00 1.7
Nickel	0.04
Selenium . , , ,	0.02
23	
K061 nonwastewaters (Low Zinc Subcategory - less than 15% total zinc)	Concentration (in mg/l)
Cadmium	0.1- 5.2
Lead	0.2 0.3
K061 nonwastewaters (High Zinc Subcategory - 15% or	Concentration
greater total zinc) Effective until 8/8/90	(ന ആഗ്)
Cadmium	0.14
Chromium (Total)	5.2
Lead	0.2 0.3
Pickel	V.3
K062 nonwastewaters	Concentration (in mg/l)
Chromium (Total)	0.09 0.37
Charles (Annual Carles Constant Carles Constant Carles Constant Carles Constant Carles Constant Carles Constant	
K071 nonwastewaters	Concentration (in mg/l)
Marcury	0.02
tary y was a sure of the sure	

Concentration (in mg/l;
0 <b>09</b> 4 0 37
Concentration
0.51
Concentration (an mg/l)
0.066 5.2 0.51 0.32

WOTE: "Wastewater" means a waste containing less than 1% filterable solids and less than 1 T.O.C.

## Table CCW Constituent Concentration in Wastes 40 CFR 268.43

F001, F002, F003, F004 and F005 wastewaters	Concentration
(Pharmaceutical Industry)	(in mg/l)
Methylene Chloride	.044
F006 nonwastewaters (see also Table CCWE in §268.41)	Concentration (in mg/kg)
Cyanides (Total)	Reserved
annon anno anno anno anno anno anno ann	
K001 nonwastewaters (see also Table CCWE in §268.41)	Concentration (in mg/kg)
laphthalene	8.0
Pentachiorophenol	37. 8.0
Pyrene	7.3
Coluene	0.14 0.16
	340 <del>4</del>
K001 wastewaters	Concentration (in mg/l)
Naphthalene	0.15
Pentachiorophenol	0.88
henanthrene	0.15 0.14
oluene	0.14
(ylenes	0.16
ead	0.037
K015 wastewaters	Concentration (in Ing/l)
Anthracene	1.0
Benzal chloride	0.26
Senzo (b and/or k) fluoranthene	0.29 0.27
Coluene	0.15
Chromium (total)	0.32
lickel	0.44
<del></del>	
K016 nonwastewaters	Concentration (in mg/kg)
	28.
texachiorobenzene	5.€
lexachlorobutadiene	_
łexachlorobutadiene	5.6
lexachlorobutadiene	5.6 28. 6.0
lexachlorobutadiene lexachlorocyclopentadiene lexachloroethane	5. <del>6</del> 28.

K016 wastewaters

Hexachlorobenzene ......

Hexachlorobutadiene
Hexachlorocyclopentadiene
'4exachloroethane

rtrachloroethene .....

(in mg/l)

0.033

0.007 0.007

0.033

0.007

K018 nonwastewaters	Concentration (is mg/kg)
Chloroethane	6.0
1,1-Dichloroethane	6.0
1,2-Dichloroethane	6.0
Haxachlorobenzene	28.
Haxachlorobutadiana	5.6
Hexachloroethane	28.
Pentachioroethane	5.6
1,1,1-Trichloroethane	6.0
	Concentration
K018 wastewaters	(in mg/l)
Chioroethane	0.007
Chloromethane	0.007
1,1-Dichloroethane	9.007
1,2-Dichloroethane	0.007
Haxachiorobenzene	<b>0.03</b> 3
Hexachlorobutadiene	0.007
Pentachloroethane	0.007
1,1,1-Trichloroethane	0.007
K019 nonwastewaters	Concentration (in mg/kg)
Bis (2-chloroethyl) ether	5.6
Chlorobenzene	5.0
Chioroform	6.0
1,2-Dichloroethane	6.0
Hexachloroethane	28.
Naphthalene	5.6
Phenanthrene	5.6
Tetrachioroethene	5.0
1,2,4-Trichlorobenzene	19.
1,1,1-Trichloroethane	6.0
K019 wastewaters	Concentration (in mg/l)
	•
Bis (2-chloroethyl) ether	0.007
Chlorobenzene	0.006
Chlorobenzene	0.006 0.007
Chlorobenzene Chloroform p-Dichlorobenzene	0.006 0.007 0.008
Chlorobenzene Chloroform p-Dichlorobenzene 1,2-Dichloroethane	0.006 0.007 0.008 0.007
Chlorobenzene Chloroform p-Dichlorobenzene 1,2-Dichloroethane Fluorene	0.006 0.007 0.008 0.007 0.007
Chlorobenzene Chloroform p-Dichlorobenzene 1,2-Dichloroethane Fluorene Hexachloroethane	0.006 0.007 0.008 0.007 0.007 0.003
Chlorobenzene Chloroform p-Dichlorobenzene 1,2-Dichloroethane Fluorene Hexachloroethane Naphthalene	0.006 0.007 0.008 0.007 0.007 0.033 0.007
Chlorobenzene Chloroform p-Dichlorobenzene 1,2-Dichloroethane Fluorene Hexachloroethane Naphthalene Phenanthrene	0.006 0.007 0.008 0.007 0.007 0.033 0.007
Chlorobenzene Chloroform p-Dichlorobenzene 1,2-Dichloroethane Fluorene Hexachloroethane Naphthalene Phenanthrene 1,2,4,5-Tetrachlorobenzene	0.006 0.007 0.008 0.007 0.007 0.033 0.007 0.007
Chlorobenzene Chloroform p-Dichlorobenzene 1,2-Dichloroethane Fluorene Hexachloroethane Naphthalene Phenanthrene 1,2,4,5-Tetrachlorobenzene Tetrachloroethene	0.006 0.007 0.008 0.007 0.007 0.033 0.007 0.007 0.017
Chlorobenzene Chloroform p-Dichlorobenzene 1,2-Dichloroethane Fluorene Hexachloroethane Naphthalene Phenanthrene 1,2,4,5-Tetrachlorobenzene Tetrachloroethene	0.007 0.006 0.007 0.008 0.007 0.007 0.003 0.007 0.007 0.023 0.007
Chlorobenzene Chloroform p-Dichlorobenzene 1,2-Dichloroethane Fluorene Hexachloroethane Naphthalene Phenanthrene 1,2,4,5-Tetrachlorobenzene 1,2,4-Tricholorbenzene	0.006 0.007 0.008 0.007 0.007 0.007 0.007 0.007 0.007
Chlorobenzene Chloroform p-Dichlorobenzene 1,2-Dichloroethane Fluorene Hexachloroethane Naphthalene Phenanthrene 1,2,4,5-Tetrachlorobenzene 1,2,4-Tricholorbenzene	0.006 0.007 0.008 0.007 0.007 0.007 0.007 0.007 0.007
Chlorobenzene Chloroform D-Dichforobenzene 1,2-Dichforobenzene 1,2-Dichforoethane Fluorene Hexachloroethane Naphthalene Phenanthrene 1,2,4,5-Tetrachloroethane 1,2,4-Tricholorbenzene 1,1,1-Trichloroethane  K020 nonwastewaters	0.006 0.007 0.008 0.007 0.007 0.033 0.007 0.017 0.007 0.023 0.007
Chlorobenzene Chloroform p-Dichforobenzene 1,2-Dichforobenzene 1,2-Dichforoethane Fluorene Hexachloroethane Naphthalene Phenanthrene 1,2,4,5-Tetrachlorobenzene 1,2,4-Trichforoethane 1,1,1-Trichforoethane  K020 nonwastewaters 1,2-Dichforoethane	0.006 0.007 0.008 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.007
Chlorobenzene Chloroform D-Dichforobenzene 1,2-Dichforobenzene 1,2-Dichforoethane Fluorene Hexachloroethane Naphthalene Phenanthrene 1,2,4,5-Tetrachlorobenzene Tetrachloroethene 1,2,4-Tricholorbenzene 1,1,1-Trichloroethane  K020 nonwastewaters	0.006 0.007 0.008 0.007 0.007 0.033 0.007 0.017 0.007 0.023 0.007
Chlorobenzene Chloroform p-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichloroethane Fluorane Mexachloroethane Naphthalene Phenanthrene 1,2,4-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1,2-Tetrachloroethane	0.006 0.007 0.008 0.007 0.007 0.003 0.007 0.017 0.007 0.007 0.007 Concentration (in mg/kg) 6.0
Fluorene  Mexachloroethane Naphthalene Phenanthrene 1,2,4,5-Tetrachloroethane 1,2,4-Trichloroethane 1,1,1-Trichloroethane  K020 nonwastewaters 1,2-Dichloroethane 1,1,2,7-Tetrachloroethane	0.006 0.007 0.008 0.007 0.007 0.003 0.007 0.017 0.007 0.007 0.007 Concentration (in mg/kg) 6.0
Chlorobenzene Chloroform p-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichloroethane Fluorane Mexachloroethane Naphthalene Phenanthrene 1,2,4-Trichloroethane 1,1,1-Trichloroethane 1,1,1-Trichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,1,2-Tetrachloroethane	0.006 0.007 0.008 0.007 0.007 0.033 0.007 0.007 0.017 0.007 0.007 Concentration (in mg/kg) 6.0
Chlorobenzene Chloroform p-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichloroethane Fluorane Mexachloroethane Naphthalene Phenanthrene 1,2,4-Tetrachlorobenzene 1,2,4-Trichloroethane 1,1,1-Trichloroethane  K020 nonwastewaters 1,2-Dichloroethane 1,1,2-Tetrachloroethane 1,1,2-Tetrachloroethane 1,1,2-Tetrachloroethane 1,1,2-Tetrachloroethane	0.006 0.007 0.008 0.007 0.007 0.003 0.007 0.007 0.017 0.007 0.023 0.007 Concentration (in mg/kg) 6.0 5.6
Chlorobenzene Chloroform p-Dichlorobenzene 1,2-Dichloroethane Fluorene Mexachloroethane Naphthalene Phenanthrene 1,2,4,5-Tetrachlorobenzene Tetrachloroethene 1,2,4-Trichloroethane  K020 nonwastewaters  1,2-Dichloroethane 1,1,2-Tetrachloroethane Tetrachloroethene 1,1,2-Tetrachloroethane Tetrachloroethene	0.006 0.007 0.008 0.007 0.007 0.007 0.007 0.007 0.007 0.007 0.008 0.007 0.008 0.007 0.008

KO22 nonwastewaters (see also Table CCWE in §268.41)	Concentration (in mg/kg)
Acetophenone	19.
Diphenylnitrosamine	13.
hanol	12.
Oluene	0.034
and the state of t	Concentration
K024 norwasiewaters	(an mag/kg)
hthalic acid	28.
	C
K024 wastewaters	Concentration (in mg/l)
Phthalic acid	0.54
K030 nonwastewaters	Concentration (in mg/kg)
exachlorobutadiene	5.0
Hexachioroethane	28.
Haxachloropropene	19.
Pentachiorobenzene	28.
Pentachloroethane	5.6
1,2,4,5-Tetrachiorobenzene	14. 6.0
1,2,4-Trichlorobenzene	19.
K030 wastewaters	Concentration (in mg/l)
p-Dichlorobenzene	0.000
	0.00
	0.00
Hexachlorobutadiene	0.03
Hexachlorobutadiene	l noon
p-Dichlorobenzene Mexachlorobutadiene Mexachloroethane Mentachloroethane 1.2.4.5.Tetrachlorobenzene	
Hexachiorobutadiene Hexachioroethane Pentachioroethane 1,2,4,5-Tetrachiorobenzene	0.01
Hexachlorobutadiene Hexachloroethane Pentachloroethane 1,2,4,5-Tetrachlorobenzene I strachloroethene	0.001 0.011 0.001 0.021
Hexachiorobutadiene	0.01° 0.00°
Hexachlorobutadiene Hexachloroethane Pentachloroethane 1,2,4,5-Tetrachlorobenzene I strachloroethene	0.01 0.00 0.02
Hexachlorobutadiene Hexachloroethane Pentachloroethane 1,2,4,5-Tetrachlorobenzene 1,2,4-Trichlorobenzene K037 nonwastewaters Disulfoton	0.01 0.00 0.02 Concentration (in mg/kg)
Hexachlorobutadiene Hexachloroethane Pentachloroethane 1,2,4,5-Tetrachlorobenzene Tetrachloroethene 1,2,4-Trichlorobenzene	Concentration (in mg/kg)
Hexachiorobutadiene Hexachioroethane Pentachioroethane 1,2,4,5-Tetrachiorobenzene Tetrachioroethene 1,2,4-Trichiorobenzene K037 nonwastewaters	Concentration (in mg/kg)

NOTE: "Wastewater" means a waste containing less than 1% fifterable solids and less than 1% T.O.C

## Table CCW Constituent Concentration in Wastes 40 CFR 268.43 (Continued)

K048 nonwastewaters (see also Table CCWE in §268.41)	Concentration (an mg/kg)
Benzene	9.5
Benzo(a)pyrene	0.8
Sis (2-ethylhexyl) phthalate	37.
Chrysene	2.2
Di-n-butyl phthalate	4.2
Ethylbenzene	67.
Naphthalene	Reserve
Phenanthrene	7.7
Phenol	2.7
Pyrene	2.0
Toluene	9.5
Xylenes	Reserve
Cyanides (Total)	1.8

K048 wastewaters	Concentration (in mg/l)
Benzene	0.011
Benzo(a)pyrene	
Bis (2-ethylhexyl) phthalate	
Chrysene	0.043
Di-n-butyl phthalate	0.060
Ethylbenzene	
Fluorene	0.050
Naphthalene	0.033
Phenanthrene	0.039
Phenol	0.047
Pyrene	0.045
Toluene	0.011
Xylenes	0.011
Chromium (Total)	0.20
Lead	0.037

K049 nonwastewaters (see also Table CCWE in §268.41)	Concentration (in mg/kg)
Anthracene	6.2
Benzene	9.5
Benzo(a)pyrene	0.84
Bis (2-sthylnexyl) phthalate	37.
Chrysene	2.2
Ethylbenzene	67.
Naphthalene	Reserved
Phenanthrene	7.7
Phenol	2.7
Pyrene	2.0
Toluene	9.5
Xylenes	Reserved
Cyanides (Total)	1.8

K049 wastewaters	Concentration (m mg/l)
Anthracene	0.039
Benzene	0.01
Benzo(a)pyrene	0.04
Bis (2-ethylhexyl) phthalate	0.04
Carbon disulfide	0.01
Chrysene	0.04
2,4-Dimethylphenol	0.03
Ethylbenzene	0.01
Naphthalene	0.03
Thenanthrene	0.03
ienol	0.04
Pyrene	0.04
Toluene	0.01
Xylenes	0.01
Chromium (Total)	
Lead	0.03

K050 nonwastewaters (see also	Concentration
Table CCWE in §268.41)	(in_mg/kg)
Benzo(a)pyrene	2.7

K050 wastewaters	Concentration (in mg/l)
Benzo(a)pyrene	0.047
Chromium (Total)	0.20 0.037

K051 nonwastewaters (see also Table CCWE in §268.41)	Concentration (in mg/kg)
Anthracene Benzo(a)anthracene Benzo(a)pyrene Bis (2-ethylinexyl) phthalate Chrysene Di-n-butyl phthalate Ethylbenzene Naphthalene Naphthalene Phenanthrene	 6.2 9.5 1.4 0.84 37. 2.2
Phenol Pyrene Toluene Xylenes Cyanides (Total)	 2.7 2.0 9.5 Reserved

K051 wastewaters	Concentration (in mg/l)
Acenaphthene	0.050
Anthracene	0.039
Benzene	0.011
Benzo(a)anthracene	0.043
Senzo(a)pyrene	
Bis (2-ethylhexyl) phthalate	
Chrysene	0.043
Di-n-butyl phthalate	0.060
Ethylbenzene	0.01
Fluorene	0.050
Naphthalene	
Phenanthrene	
Phenol	
Pyrene	
Toluene	
	0.01
Xylenes	
Chromium (Total)	
Lead	0.037

K052 nonwastewaters (see a Table CCWE in §268.41)		Concentration (in mg/kg)
Benzene	,	9.5
Benzo(a)pyrene		0.84
o-Cresol		2.2
p-Cresol		0.90
Ethylbenzene		67.
Naphthalene		Reserved
Phenanthrene		7.7
Phenol		2.7
Toluene		9.5
Xylenes		Reserved
Cyanides (Total)		1.8

K052 wastewaters	Concentration (in mg/l)
Benzene Benzo(a)pyrene o-Cresol p-Cresol 2.4-Dimethylphenol Ethylbenzene Naphthalene Phenanthrene Phenol Toluene Xylenes	0.011 0.047 0.011 0.011 0.033 0.011 0.033
Chromium (Total)	0.20 0.037

K062 wastewaters	Concentration (sn mg/l)
Chromium (Total)	0.32 0.04
Nickel	0.44

K071 wastewaters

Concentration

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0.030

K086 nonwastewaters-Solvent Washes Subcategory (see also Table CCWE in §268.41)	Concentration (in mg/kg)
Acetone	0.37
bis (2-ethylhexyl) phthalate	0.49
n-Butyl alcohol	
Cyclohexanone	0.49
1,2-Dichlorobenzene	0.49
Ethyl acetate	0.37
Ethyl benzene	0.03
Methanol	0.37
Methylene chloride	0.03
Methyl ethyl ketone	0.37
Methyl isobutyl ketone	
Naphthalene	0.49
Nitrobenzene	0.49
Toluene	0.03
1,1,1-Tricholorethane	0.04
Trichloroethylene	
Xylenes	0.01

K086 wastewaters - Solvent Washes Subcategory	Concentration (in mg/l)
Acetone	0.015
bis (2-ethylhexyl) phthalate	0.044
n-Butyl alcohol	0.031
Cyclohexanone	0.022
1,2-Dichlorobenzene	0.044
Ethyl acetate	0.031
Ethyl benzene	0.015
Methanol	0.031
Methylene chloride	0.031
Methyl ethyl ketone	0.031
Methyl isobutyl ketone	0.0
Naphthalene	0.0
Nitrobenzene	0.044
Toluene	0.029
1,1,1-Trichloroethane	0.03
Trichloroethylene	0.029
Xylenes	0.015
Chromium (Total)	0.32
Lead	0.037

## Table CCW Constituent Concentration in Wastes 40 CFR 268.43 (Continued)

K087 nonwastewaters (see also Table CCWE in §268.41)	Concentration (in mg/kg)
Acenaphthalene	3.4
Benzene	0.071
Chrysene	3.4
Fluoranthene	3.4
ndeno (1.2.3-cd) pyrene	3.4
Naphthalene	3.4
Phenanthrene	3.4
Toluene	0.65
Xvienes	0.070

K087 wastewaters	Concentration (in mg/l)
Acenaphthalene	0.028
Benzene	0.014
Chrysene	0.028
Fluoranthene	0.028
Indeno (1.2.3-cd) pyrene	0.028
Naphthalene	0.028
Phenanthrene	0.028
Toluene	0.008
Xylenes	0.014
Lead	0.037

K099 nonwastewaters	Concentration (in mg/kg)
2.4Dichlorophenoxyacetic acid	1.0
Hexachlorodibenzo-p-dioxins	. 0.001
Hexachiorodibenzolurans	. 0.001
Pentachlorodibenzo-p-dioxins	0.001
Pentachlorodipenzofurans	0.001
Tetrachlorodibenzo-p-dioxins	0.001
Tetrachiorodibenzoturans	0.001

K099 wastewaters	Concentration (in mg/l)
2,4Dichlorophenoxyacetic acid	1.0
Hexachlorodibenzo-p-dioxins	0.001
riexachiorodibenzofurans	0.001
Pentachlorodibenzo-p-dioxins	0.001
Pentachlorodibenzolurans	0.001
Tetrachiorodibenzo-p-dioxins	0.001
Tetrachlorodibenzoturans	0.001
4-3-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	

K101 nonwastewaters (Low Arsenic Subcategory-less than 1% total arsenic) (see also Table CCWE in §268 41)	Concentration (in mg/kg)
Ontho-Nitroaniline	14.

K101 ws	slewaters	Concentration (in mg/l)
Ortho-Nitroaniline Arsenic Cadmium		0.27 2.0 0.24
Lead Mercury		0.11 0.027

K102 nonwastewaters (Low Arsenic Subcategory-less than 1% total arsenic) (see also Table CCWE in §268 41)	Concentration (in mg/kg)
Ontho-Nitrophenol	13.
K102 wastewaters	Concentration (in stoyl)
Ortho-Nitrophenol Arsenic Cadmium Lead Mercury	0.02 2.0 0.24 0.11 0.02
K103 nonwastewaters	Concentration (in mg/kg)
Aniline Benzene 2,4-Dinitrophenol Nitrobenzene Phenol	- 5. 5. 5. 5.

K103 wastewaters	Concentration (in mg/l)
Aniline	4.5
Benzene	
2,4-Dinitrophenol	0.61
Nitrobenzene	0.073
Phenol	

ncentration in mg/kg)
5.8
6.0
5.6
5.6
5.6
1.8

5
15
61
073
4
7

40	Land	Disposal for
	K004	Norwastewaters [Based on No Generation]
	KOOS	Nonwastewaters [Based on No Generation]
	K015	Nonwastewaters [Based on No Ash]
	KQ21	Norwastewaters [Based on No Generation]
	K025	Norwastewaters (Based on No Generation)
	K036	Norwastewaters (Based on No Generation)
	K044	[Based on Reactivity]
		[Based on Reactivity]
	<b>KO47</b>	[Based on Reactivity]
	K060	Norwastewaters [Based on No Generation]
	K061	Nonwastewaters - High Zinc Subcategory
		(greater than or equal to 15% total zinc)
		[Based on Recycling] effective 8/8/90
	K089	Nonwastewaters - Non-Calcium Sulfate
		Subcategory [Based on Recycling]
	K083	Nonwastewaters - No Ash Subcategory
		(less than 0.01% total ash)
		[Based on No Ash]
	K100	Nonwestewaters [Based on No Generation]

Other

WASTE VERIFICATION FORM

0 1							
Customer:		-					
Initial A	nalysis						
	Code:	D.O.T. Proper	Shipping Name:				
Sample I.	D.:	Sample Date:		<b>%</b> ∘			
Current A	nalysis						
EPA Waste Code: Sample I.D.:		D.O.T. Proper Sample Date:	Shipping Name:				
	(Weight %)	Initial Waste Analysis	Current Waste Analysis	Difference	* Pass/Fail		
Semeral C	hemical Composition:						
,	Alcohols Esters Inhibitors Ketones Aliphatic Hydrocarbons Others Chlorinated Solvents Aromatic Hydrocarbons						
	Miscellaneous						
Specific	Chemical Composition:						
	Ethyl Alcohol Methyl Alcohol Isopropyl Alcohol Freon TF 1.1.1 Trichloroethane Xylene Mineral Spirits Perchloroethylene Methylene Chloride Toluene Trichloroethylene Methyl Ethyl Ketone						
	if difference between cu ater than 50.0%.	rrent sample and	initial sample				
Required Action:							
	None Required						
	Call Generator	Call Generator					
	Require new waste stream analysis						
	Require written explanation						

- VW&R and McKesson Envirosystems' services to recycle a spent stream, a VW&R representative is either sent to the customer's location or makes contact with him to acquire a prepared Spent Material/Waste Product Survey form (copy attached along with preparation instructions). VW&R strongly urges the customer (who is the generator) to provide us with a physical and chemical analysis which he has either performed or has obtained from an outside laboratory.
- 2. The completed Spent Material/Waste Product Survey form and any laboratory physical and chemical analysis are returned to the respective branch which will be handling the generator's waste stream. A copy of the survey and any analyses are kept on file at the branch facility, while the original is mailed to McKesson Envirosystems.

·along with copies of any laboratory analysis.

- 3. McKesson Envirosystems will evaluate the data contained on the Spent Material/Waste Product Survey form and the analytical reports on the waste stream and determine if the recycling facility has sufficient information to properly manage the material. A sample may be required by McKesson Envirosystems before a decision is made as to whether to accept a particular waste stream and, if so, copies of the laboratory reports are forwarded to the VW&R branch facility before the material is picked up.
- 4. Once McKesson Envirosystems has made a determination that sufficient knowledge of a particular waste stream is on hand, and approval is given by the Environmental Engineer, Marketing Manager, and Corporate Manager of Refinery Operations, the VW&R branch is notified.

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<sup>\*</sup> or another permitted
facility

- 5. With this approval on hand, the VW&R branch will notify the generator that the branch is authorized to pick up the material in accordance with the following procedure:
  - A. The generator completes an appropriate Hazardous Waste Manifest based on the Survey form and accompanying analytical data.
  - B. A copy of the Manifest is supplied to the local VW&R branch and is checked.
  - C. A copy of the Manifest, after its approval by Branch Management, is given to the truck driver and is to be in his possession until delivery of the material to the branch.
  - D. The material to be picked up is compared to the listing on the Manifest by the driver. In addition, he:
    - a. Evaluates the container for condition scaled, with no apparent leaks.
    - b. Locates the precautionary warning label,
       if required.
    - c. Ensures that no other labelling or sten-
    - cilling is on the container other than
      the Hazardous Waste label, including
      trademarks, original vendor names, and

the like



- E. The driver also makes sure the Hazardous Waste Labe!
  on the drum is complete:
  - a. Generator name and address.
  - b. Contents.
  - c. Manifest number.
  - d. Proper shipping name.
  - e. E.P.A. ID number.
  - f. Accumulation starting date.
- F. The driver picks up only that quantity and class of hazardous waste appearing on the Manifest.
- 6. Upon notice to McKesson Envirosystems that VW&R branch requires pick up of an accumulated load of spent material, McKesson Envirosystems simultaneously forwards a copy of all data accumulated on a particular waste stream to the respective recycling facility for review and filing at that location so that this information is available before actual receipt of the waste stream.
- 7. At the time a shipment is received at the recycling facility, a measurement and recording of the volume received of a particular generator's stream is made. Verification is made that the count contained on the accompanying shipment manifest document corresponds to the number of containers received and that the lot numbers assigned by the VW&R

branch handling (storing) the spent stream are accurate. A sample is drawn from the various drum utilizing a sampling tube which will ensure a homogeneous (cross section) representation according to the following schedule:

\* or another permitted facility

#### 7. cont'd.

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- a. For ten or less drums in a particular generator's lot of a given product, all drums are sampled.
- b. For more than ten drums in a particular generator's lot of a given product, a statistical sampling of 40% of all drums, but not less than ten drums, is taken.

The container samples are then taken and an aliquot representation is composited for analytical verification. The sample taken at the recycling facility is labelled and identified with the following information

- a. The manifest number.
- b. The generator's E.P.A. identification number.
- on the hazardous waste label on the drum.
- d. The E.P.A. hazardous waste code as 'It appears on the hazardous waste label on the drum.
- e. The date on which the shipment is received.
- f. The initials of the individual who took and composited the sample.

The drums are held in a specially designated and contained storage area where they are segregated according to generator and waste identification until the lab verification results are returned.

8. The composite sample of the received containers is taken to the on-site lab where gas chromotagraphic analysis is performed to ensure that the material is in fact one and the same as the description on the Spent Material/Waste Product Survey form, the manifest, the drum label, and any

Waste Analysis and Verification Procedures Van Waters & Rogers Inc. Page 5.

lab reports which the generator may have provided. Based upon the results of the chromatographic analysis, further tests will be conducted as warranted Once verification is made, the approval is given by the Plant Manager, or that individual's designee, for movement of the drums into the processing area.

- 9. Should a discrepancy become apparent during the verification analysis, the recycling center will contact the VW&R branch who will in turn contact the generator to inform him of the discrepancy. Based upon the findings of the lab and the contact with the original generator, the shipment of the material having the evidence of a discrepancy may be refused, or an alternate means of handling the shipment will be arranged with the original generator.
- 10. A copy of the gas chromatographic analysis is returned to the VW&R branch which was temporarily storing a generator's spent material. This copy is placed into the customer's file (original generator), which also contains a copy of the original Spent Material/Waste Product Survey form, any laboratory analytical reports, and any and all correspondence between any of the parties involved regarding that particular generator's waste stream.

The net result of the preceding is that all shipments of recyclable materials sent to one of the recycling facilities are verified by the latter before they are processed. This step not only verifies the economic value of the spent stream but prevents damage to the equipment and hazard to personnel due to unexpected ingredients in the solvent.

Section I. General
Complete company name, address and zip code.
If generating plant is in a different location, please note
Omit Product Code.

### Section 2. Marketing

The accurate completion of this section has a direct effect

- A. Pricing
- B. Method of pick up
- C. The decision as to where the spent material will be
- D. The request for a sample.

## Section 3. Physical Properties Complete to your best ability If the generator has any other analysis i.e. WRER or Independent of the properties is a second of the control of the properties of the control of the con

Section 4. Hazardous Properties
Under RCRA hazardous waste will meet 4 basic properties:

- A. Ignitable Flash Point <140°F Actives, Hydrocarbons
  Lacquer Thinners, and blends of these sol
- B. Toxic Chlorinated and Fluorocarbons
- C. Corrosive Acids, Caustics, PH <u>C</u>2 or > 12.5
- D. Reactive TNT Waste water, Sodium Metal

Describe the property relative to the waste stream.

- Section 5. EPA-DOT Identification

  EPA hazardous waste numbers can be found by using the attached listing. (Taken from CFR \$40, 5-19-80)

  Hazard codes describing the waste's properties Listed in Section 4 can be found on the same listing.

  DOT hazardous material descriptions in addition to their hazard class and identification (UN or NA) numbers are found in the Hazardous Materials Table 5-22-80. A copy of this table should be on file at each VW&R branches
- Section 6. Chemical Composition

  The basic components of the waste should be listed in this section along with their percentages of composition.

  Again any other analysis reports on the stream should be attached.
- Section 7. General

  Any other information relative to the stream, or customer specifications on reclaimed and returned material, ie.drying addition of virgin material, packaging should be listed her
- Section 8. The generator must sign this survey form.

Phone number, date filed, and federal EPA I.D. number must be completed.

### FOR OF USE O

### Spent Material / Waste Products Survey

Please provide all information requested below, then return this form to your local

Representativ:

COMPANY			dir.		SIC	REBMUN	· -
AAILING ADDRESS		20-310-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-			PRC	DOUCT CO	n =
MAILING ADDRESS							
DESCRIPTION OF SPENT MATER			ATE PROCESS PECIFIC)	WHICH GENER	ATES THIS	SPENT / V	VASTE
VOLUME		FREQ	UENCY		Г	ACKING	
. <b> </b>		PER MONTH	PER YEAR	ONE TIME	[in]	Į.N	I ULK
PHYSICAL PROPERTIES: PHYSICAL STATE AT 70°F	(DATE OF LAB			HAZARDOL DESCRIBE-		ERTIES:	
SOLID					(4)		
SEMI-SOLID							<del></del>
SPECIFIC GRAVITY					<u>.</u>		
% SULFUR	BTU PER LB/GA	YL					.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
EPA / DOT IDENTIFICAT		7			, , ,		
EPA HAZARDOUS WASTE N	JMBERS	<u> </u>	_ EPA HAZAR	D CODES		·	
DOT HAZARDOUS MATERIAL D	ESCRIPTION						···
CHEMICAL COMPOSITIO	٧:	3 , 3 m oo		- 20-0	- 20-20-2		
SUBSTANCE	MIN MAX	ΓΥΡ	SUBSTANC	CE.	MIN	MAX	TYP
			· · · · · · · · · · · · · · · · · · ·				<u> </u>
(6)				· · · · ·			ļ
							ļ
						[	ļ
BENERAL:							
1. PLEASE PROVIDE LAB ANAL	YSIS IF HEAVY METALS, CY	ANIDES, PEST	ICIDES, CARCI	NOGENS OR OT	HER TOXICS	S ARE INV	OLVED.
2. PLEASE DISCUSS ANY OTHE	ER INFORMATION WHICH M	AY HELP MCKE	ESSON BE OF	SERVICE			
					*	1701117	
					, <u>2000</u>		
		12.1		· · · · · · · · · · · · · · · · · · ·			
	TACH ANY ADDITIONAL HA						
•	TO THE BEST OF MY KNOW A COMPLETE AND ACCU	LEDGE AND AS JRATE DESCRIF	PTION OF THIS	MATERIAL			
SIGNATURE	8		TITLE				<u> </u>
PHONE NUMBER (INCLUDE ARE	A CODE)		DATE	<b>€</b> PA	IDENTIFICA	ATION NO.	202404
		į			7000	-	
				; , ,	DEC		
				1	DEC 22	1986	

Van Waters & Rogers Inc.
Security

(40 CFR Sec. 122.25(a)(4), 264.14)

This . VW&R facility employs a number of measures designed to assure adequate security in order to comply with government regulations and to assure the protection of Company assets.

This facility does not utilize a 24-hour entry surveillance system, but does have other means of control to provide adequate security. A fully automatic and monitored 24-hour fire alarm system is present at the facility.

The entire facility including the outside yard storage area, in which the designated waste storage area is included is maintained in a secure manner. As will be ovserved from the facility diagram, the building walls act as a barrier on the north side of the complex. On the east wall at the end of the building, fencing begins and surrounds the entire yard and truck dock and loading/unloading area until meeting up with the southwest corner of the building.

The fencing utilized to surround the outside areas of the facility where storage and loading/unloading activities are undertaken, is constructed of a 6 foot high, fabric type 11 gauge, 2 inch mesh chain link fence. Above the mesh fencing, supported on the top of the steep upright posts, are arms projecting 1 foot at a 45 degree angle from vertical, and holding 3 strands of barbed wire strung around the entire fence.

Access to the areas of the facility which are surrounded by the fence will be by means of one of two gates. Vehicle traffic may gain access to the loading/unloading dock area by way of a 24 foot gate constructed of similar materials as the fixed fencing previously described. This access is in

Van Waters & Rogers Inc.

Security
(40 CFR Sec. 122.25(a)(4), 264.14)

Page 2

the western stretch of fence located to the South side of the building. The other access point through the fence consists of a 3 foot gate of similar construction to accomodate the rail entry. This gate is located on the eastern stretch of fence.

Both of the above mentioned gates are maintained in a closed and padlocked condition during all periods of facility non-working hours. During working hours, the fence gates are capable of being observed at all times from the general office. All visitors must gain access to the facility by way of the main office located on the northern side of the facility. A secured and attended vestibule area lies immediately inside the entrance door at which point a receptionist shall inquire as to the individual's identification and purpose of visit. While within the facility, it is VW&R policy that no one shall be allowed to gain access to any part of the immediate facility without having a VW&R employee accompanying them at all times. Any visits and/or inspections which may be pertinent to the functioning of the facility as a hazardous waste management facility, are to be logged in the facility's operating log.

All doors, as well as gates which were previously described, are maintained in a locked and secured condition during non-working hours.

Warning signs are posted at all fence gates and several other fence locations around the facility in such a manner to be visible from all angles of approach, and shall bear the legend "Danger-Unauthorized Personnel Keep Out". There shall also be "No Smoking" signs posted in prominent positions in the yard and loading areas, as well as other precautionary and safety signs, to assure that no ignition sources are present in these areas. The restriction of smoking to

Van Waters & Rogers Inc.
Security
(40 CFR Sec. 122.25(a)(4), 264.14)
Page 3

only designated areas is again a standard VW&R working '

No materials, empty pallets, or drums are permitted to be stacked against the fence in order to prevent easy agress or concealment.

All critical locks are changed when a key holder leaves the Company, when a key is lost, or every two years, whichever occurs first.

All available lighting will be utilized to illuminate the buildings, fence; and yard. Electric timer switches are installed to control the lighting.

### Van Waters & Rogers Inc.

Inspection Schedules, Equipment Requirements, and Preventative Measures

(40 CFR Sec. 122.25(a)(5), 264.15, 264.174, 264.194,

264.254, 264.255, 122.25(a)(6)

As a result of W&R being only a distributor of chemicals (no manufacturing, no processing), any branch will employ a limited variety of equipment in its daily business. Those few pieces, plus particularly all equipment and apparatus involved with safety, do receive regular well-defined inspections routinely, and all are subject to preventive maintenance. The net result is a constant evaluation of all relevant equipment and its operation for possible malfunctions, structural deterioration, operator errors, and unintentional misuses which could affect human health or the environment.

Table I shows the items which are routinely inspected and the types of problems which could present themselves or cause an item to be nonfunctional. The items have been selected as those being important to the facility maintaining a safe working environment for the employees, and to being valuable in preventing a threat to the public and/or ecological systems.

Included in Table 1 is a listing of the frequency with which the items are inspected. It should be noted that in addition to these inspections which are routinely done by the branch personnel.

W&R other

Company personnel not stationed at the facility, conduct a "Safety Audit" of the operation on a quarterly basis. This policy has been in place since 1978 and entails either the facility's District Manager or a member of the Regional Operations Department Staff's visiting the branch for what typically is a full day to inspect and evaluate the facility in approximately 180 areas pertaining to safety and operating procedures. Examples of areas checked are:

### Van Waters & Rogers Inc.

Inspection Schedules, Equipment Requirements & Preventative Measures Page 2

- 1. Office area
- 2. Drivers' records
- 3. Fire protection
- 4. Maintenance
- Compliance with OSHA, DOT, all applicable rules and regulations
- 6. Security

- 8. Warehouse & dock
- 9. Yard area
- 10. Transportation
- 11. Physical layout & equipment
- 12. General recordkeeping and control
- Compatibilities of stored materials.

Inspections of the hazardous waste container storage area will be conducted as outlined in Table 1. Results and documentation of any remedial actions which might be required will be recorded on an inspection log sheet similar to the one found following this narrative and entitled "Inspection Log Form". Information to be included on the log sheet shall include the item inspected, date and time of inspection, name of inspector, remedial action (if necessary), and supervisor's signature. has also developed the form VW&R entitled "In House Container Inspection Checklist", which is included immedlately following the Inspection Log Form. Included on this form is a listing of areas which should be reviewed pertaining specifically to the area of container management. The inspector is required to check the status of each item and make a decision as to acceptable or unacceptable. On the lower portion of the form, are action codes for remedial activities which might be necessary to implement if conditions are 'found which might necessitate some action. Upon discovery, the appropriate personnel shall ensure that the proper actions to remedy an unsafe situation are undertaken. Any remedial actions shall be noted and kept on file with appropriate reports made, if necessary.

Van Waters & Rogers Inc.
Inspection Schedules, Equipment Requirements
& Preventative Measures
Page 3

In addition to container inspections being logged, similar documentation is undertaken for Company quarterly safety inspections, sprinkler system inspections (weekly), fire extinguisher inspections (monthly) maintenance checklist (as designated by specific area), and governmental inspections (as performed).

This facility of VW&R does not utilize tanks of any sort for the management of waste materials. Thus, the regulations pertaining to inspections and the logging of such inspections on this type of equipment is not applicable.

This facility likewise does not utilize waste piles as a means of managing wastes, and the regulations pertaining to inspections and the logging of such inspections are not applicable.

YWAR personnel, upon a routine inspection, find that a condition is present of a non-emergency nature which requires some type of maintenance in order to bring that particular article into compliance with standards, it shall be that employee's responsibility either to bring the subject concern into compliance, or to bring it to the facility management's attention to correct the deficiency. All remedial actions are undertaken at the earliest possible time in order to alleviate potential for further deterioration of equipment, or to eliminate an unsafe condition which could pose a threat to health or the environment.

If during an inspection a situation would be found which is of an emergency nature, or has the potential to be, the employee shall immediately initiate

Van Waters & Rogers Inc.
Inspection Schedules, Equipment Requirements,
& Preventative Measures
Page 4

remedial action, and notify the appropriate emergency coordinator who shall carry out his/her actions as outlined in the Contingency Plan. As outlined within the Contingency Plan, in the event of a release of materials, it shall be the objective to contain, isolate, clean-up, and decontaminate the affected area with the utmost concern for minimizing risk to Company workers, the public, and the environment. The clean-up material must then be properly disposed of, and necessary documentation and reporting undertaken.

Inspection logs are maintained and kept at the facility by the Operations Manager. The format of the inspection log is included at the end of this narrative and is to be maintained at the facility for a minimum of 3 years from the date of inspections. Any extraordinary occurrences such as a waste release or fire requires a written report which shall be kept on file at the facility, as well as being forwarded to the appropriate agencies and Company personnel as outlined in the "Contingency Plan" section.

VW&R does not request a waiver of the preparedness and prevention requirements under 40 CFR 264 Subpart C. Requirements of this section of the regulations are to be complied with.

Specific discussion pertaining to internal and external communications capabilities, the internal alarm system, emergency equipment present on-site, fire control equipment present on-site and training in its use, is discussed either in this section accompanying "Contingency Plan".

The telephone system at this facility provides the main internal as well as external means of communication. A designated alarm system is utilized by

Van Waters & Rogers Inc.

Inspection Schedules, Equipment Requirements,
& Preventative Measures
Page 5

branch personnel to act as an alert system for emergency situations with instruction and drills conducted on a routine basis.

Emergency equipment maintained at this facility is listed in the Contingency Plan.

Adequate water is provided at this facility by means of fire hydrants as shown on the facility site plan. The building itself is protected by a sprinkler system with an automatic alarm system hookup, although no waste materials are stored within the building.

### Van Waters & Rogers Inc. -

### Inspection Schedule (To be kept at Facility)

Area/Equipment	Specific Items		Frequency of Inspection
Container Storage Area	General Area	Leaks, spills	Daily
(Secondary Containment)	Container placement and stacking	Aisle space	Weekly
	Sealing of containers	Open bungs, lids	Weekly
	Labelling of con- tainers	Improper identi- fication Date missing illegibility	Weekly
	Base	Cracks, erosion	Daily
	Berm	Cracks, deterioration	Daily
·	Warning signs	Damaged	Weekly
•	Debris & refuse	Aesthetics	Weekly
	Accumulated liquid	Contamination	Daily, and confirm after precipitat
Security Devices	Facility fence	Corrosion, damage	Weekly
•	Main Gate • .	Corrosion, damage, non-functioning	Weekly
Loading, Unloading Areas	Surface areas	Deteriotation spills	Daily
	Dock bumpers	Damage	Daily

Inspection Schedule Van Waters & Rogers Inc. Page 2.

Area/Equipment	Specific Items	Types of Problems	requency of Inspection
Safety & Emergency Equipment	Emergency shower & eye wash	Water pressure, leaks drainage	Weekly
	Industrial absorbent	Out of stock	Monthly/ as needed
	Overpack drums	Out of stock	Weekly
	Face shields	Broken or dirty	Monthly/ as needed
•	Chemical cartridge respirators with cartridges for organic solvents	Spent solvent, seals	Monthly/ after each use
	Portable pump	Power, clogging	Monthly
	Fire extinguishers	Recharging	After each use
	Fire alarm systems	Power failure	Per NFPA
	Telephone system	Power failure	Per NFPA
	Emergency lighting system	Battery failure	Per NFPA
	First aid equipment and supplies	Items out of stock or impoperative	As used
	Protective clothing	Holes, wear & tear	As used
	Decontamination wash room	Water pressure, leaking drainage	As used
•	Forklifts	Brakes (includes parking), tires (pressure), horn, light hoist, tilt, forks, steering, water level rad/batt., engine oil level, hydraulic oil le	<b>8</b> . a

### Van Waters & Rogers Inc.

### In House Container Inspection Checklist

Α.	Location	YES	NO	Recommended Action		
, gran	. Waste materials properly segregated according to VW&R compatibility storage program.	CONTRACTOR OF THE PARTY OF THE				
2	. Ignitables (flammables, combustibles) located 50 feet from property lines.	CONTRACTOR OF THE PROPERTY OF	<del>0</del>			
3	. Aisles provided for emergency access.	* The state of the	**************************************			
₿.	Container Condition					
1	. All containers sealed.		40071			
2	. Any leaking containers.	· +m-monmon/m-				
3	. Any containers swollen or bulged.	<del></del>	-			
4	<ul> <li>Any containers concaved due to vacuum building up.</li> </ul>	<del></del>	<del>a-cumba</del>	:		
5	<ul> <li>Any containers with extreme corrosion</li> </ul>	400000000000		**************************************		
6	<ul> <li>All containers properly labelled and identified.</li> </ul>	-				
8	. All containers have lot number	<del></del>				
ġ	. All containers compatible with products stored in them.	<del>G., suun</del>				
	Inspector:	Date:				
	I have reviewed this report and certify all sto	rage is	in satisf	actory conditi		
	Supervisor:	Date:				
Rec	Recommended Action Codes					
A -	Effect VW&R compatibility program		•			
B <sub>.</sub>	Effect container receiving maintenance procedure					
C -	Effect container transfer procedure					
D -	Effect spill control procedure					
	certify that the above recommended action has been taken on:					
	Date:Storage is now satisfactory.					
	Supervisor:	Date:	di	<del></del>		

INSPECTOR DATE COMPLETED RESULTS REMEDIAL ACTION REQUIRED OBSERVATIONS INSPECTOR INSPECTION TIME DATE SUBJECT

### Van Waters & Rogers Inc.

### Contingency Plan

VW&R is an established major distributor and repacker of a wide variety of industrial chemicals and solvents, many of which are hazardous (flammable, corrosive, toxic, oxidative). Consequently, the Company has long had in place a formal Emergency/Contingency Program designed to protect its employees, its property, and that of its neighbors and the general public in the event of an emergency. The expansion of the facility's business to include the temporary storage of a limited variety of spent solvents (all of which are sold as virgin grades by the facility) has required only a modest modification of the existing Plan to cover the additional requirements imposed by management of hazardous wastes.

Each branch of VW&R is only a distributor of industrial chemicals and solvents. No manufacturing or processing activities are carried out at this facility. The company purchases chemical commodities from various manufacturers and distributes them to customers which utilize these products in their manufacturing processes.

The owner of this facility is VW&R

All facility personnel involved

with implementing emergency procedures are identified in the facility's

DEC-2

Van Waters & Rogers Inc.
Contingency Plan
Page 2.

Emergency and Contingency Program (the "Contingency Plan"), a copy of which is located in the Appendix of this Application. Home phone numbers are noted in the "Emergency Phone Number" section for the Branch Manager, the Emergency Coordinator and the latter's alternates.

fundamental involvement as it relates to VW&R hazardous waste management is that of receiving back from off-site generators spent solvents, temporarily storing them in order to accumulate economic truckloads, and then reshipping these materials to recycling center at another location. Materials considered hazardous wastes are stored in a specific area (or areas) on the property. All materials are handled in drums of 55 gallon capacity or less as described in the section entitled "Containers Utilized Holding Free Liquids". The maximum storage of drums shall be 512 and the designated storage area is shown on the engineering plot plan under "General Description of Facility". A detailed description of this area is located in the section entitled "Secondary Containment System Design and Operation". A copy of the facility's Contingency Plan, including site plans locating location of emergency equipment and evacuation routes, has been distributed to local emergency authorities; receipts are appended.

In the event of an emergency situation, the individual making discovery of the occurrence is to immediately notify the Emergency Coordinator or his Alternate; if neither is available, the next Alternate listed on the

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Van Waters & Rogers Inc.
Contingency Plan
Page 3.

Emergency Phone Number listing, and so on. The Emergency Coordinator, as do his alternates, has the authority to commit Company resources and to initiate requests for assistance to any emergency agency — several of the latter are listed in the Contingency Program.

The phone number listings and emergency agencies outlined in the Plan are prominently posted within the facility and are kept readily available by the Emergency Coordinator and his alternates.

The decision is made by the Coordinator or his alternate as to whether a given emergency situation poses imminent threat to human life, health, or the environment to an extent that implementation of the Contingency Plan is required.

In any emergency situation, it is important that the outline of actions and procedures to be followed be as concise as possible to allow the response to be so prompt as to minimize risk. For this reason, the Plan includes the Emergency Phone Number Listing and Emergency Procedures to be followed by this facility. For purposes of this Application, an elaboration of specific areas will be discussed for various considerations pertaining to the Contingency Program. This will also be used by facility management for reference.

The Contingency Plan will be implemented for any of the following situations:

1. Fire and/or Explosion - the Coordinator or his alternate must make an assessment as to the number of different potential problems or

DEC LL ,SUO-

Van Waters & Rogers Inc.
Contingency Plan
Page 4.

situations which might occur in an emergency, and how to deal with them. Consideration must be given to items such as:

- Release of fumes and possible necessity for neighbor evacuation.
- Presence of materials which when exposed to fire could explode, resulting in flying debris which could spread fire to off-site areas or to previously unaffected areas at the facility.
- Explosions which could result in the release of materials from containers.
- Residues from fire fighting activities which may require containment, handling, and disposal in an appropriate manner if deemed hazardous.
- 2. Spills or Material Release The Coordinator or his alternate must make an assessment and take necessary actions to alleviate risk in such a situation. Consideration must be given to the following potential threats:
  - The potential for the released material's being a flammable liquid which would pose a fire hazard.
  - The possibility of ground contamination which would require removal and proper disposal of soil so contaminated.

Van Waters & Rogers Inc.
Contingency Plan
Page 5.

- Dealing with surface water which may become contaminated with the released material. Every effort is made to prevent such mixing.
- Awareness and guarding for potential ignition sources, and determination as to whether the release of fumes could pose a fire and/or explosion hazard which would necessitate neighbor evacuation.
- 3. Floods Regardless whether a facility is or is not located in a floodplain, the Emergency Coordinator must remain cognizant of weather conditions and implement removal of materials to higher ground or to a safe, permitted facility if necessary. Contact with the National Weather Service would be initiated in the event that conditions are present which could bring about possible flooding.

It is a VW&R policy that emergency plans and procedures be kept available at the facility and that emergency drills be conducted at 6-month intervals in which all facility personnel participate.

As mentioned previously, in the event of an emergency situation the Emergency Coordinator must be notified, or in his absence, an Alternate in descending order as listed on the Emergency Coordinator listing. The Coordinator at that time determines the appropriate measures to be implemented (e.g., alarms, evacuation, etc.) and what Federal, state, or local agencies as well as fire and police departments, must be advised to render assistance.

Van Waters & Rogers Inc. Contingency Plan Page 6.

In the event of a release or fire, the Coordinator will determine by observation, facility records, or analysis (if time permits), what the identity of the material involved is, its exact source, quantity, and extent of impact the released material could have from a health, safety, and environmental aspect.

An assessment of the situation must be made to determine possible hazards to human health and/or the environment due to the emergency. The Coordinator must look at all possible direct and indirect effects which might result from the emergency. The Coordinator must further determine whether facility personnel are adequately equipped to deal with the situation, or whether it is necessary to contact outside emergency agencies for assistance.

The potential incidents which are of highest priority for emergency planning at this facility are (1) fire and/or explosion, and (2) spills or material releases. Other natural disasters such as tornados, earthquates, or floods, would be handled in similar response manners as outlined in the Contingency Plan as deemed appropriate by the Emergency Coordinator.

The outside storage yard, including the designated waste storage area, is accessible by means of entry through the loading area and the gates in the fence. This area is paved and remains unobstructed at all times.



Van Waters & Rogers Inc.
Contingency Plan
Page 7.

### Fire

Personnel at the facility have been provided instruction by the local fire department on use and application of various on-site fire extinguishers for fire fighting efforts until appropriate outside emergency teams arrive. The efforts of facility personnel shall center on extinguishing the fire or preventing its spread, without taking undue risks to themselves.

The Coordinator shall assure that, if appropriate, the evacuation signal is given, at which time all personnel who are not directly involved in the incident control efforts are to proceed to their designated congregation points which are indicated on the site diagram included in the Contingency Plan. All activities within the facility will cease and apparatus such as forklifts, trucks, and emergency equipment removed from the building proximity as time allows. Power sources are shut down. Traffic flow and outside observers are controlled and the area isolated to alleviate potential additional ignition sources. Should the materials which may be affected by the emergency be of such a nature as to pose a threat of conflagration, explosion, or fume release, the Coordinator shall advise emergency personnel, and render any assistance necessary to implement evacuation of the surrounding area within  $\frac{1}{4}$  mile. All employees are trained and partake in drills on evacuation procedures and are instructed not to leave the designated congregation point unless so directed by the party Parisod responsible for accounting for all employees.

Van Waters & Rogers Inc.
Contingency Plan
Page 8.

### Spills

Spills or material releases upon discovery must be reported to the Emergency Coordinator or his alternate. Immediate response is required to minimize the impact of the release. The Coordinator must assess the proper actions and precautions to be taken to protect human health and the environment. He must also initiate appropriate activity to identify, contain, collect, and properly dispose of the material.

Because this facility deals with only containerized materials in waste form, the amount of material which has potential for release from one container is relatively small. However, prompt and safe procedures must be followed to deal with a situation in an appropriate manner.

The Coordinator must make continual assessments as to the potential impact the release may pose such as fire hazards, fume escapes which would necessitate evacuation of the facility and/or neighbors, need for clean-up (assuring the proper utilization of safety equipment to undertake this activity), determination of the necessity for calling in outside emergency agencies, and initiating the required reporting and documentation of the incident (i.e., materials designated by RQ quantities as listed under Superfund, Solid Waste Disposal Act, Clean Air Act, or TSCA; or which could be classified as a hazardous waste under RCRA).

The secondary containment devices will catch materials released from drums during storage, and upon discovery of leakage during inspections, the Coordinator is to be notified and will initiate appropriate clean-up

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Contingency Plan, Page 9.

measures. Liquid material will be removed by means of a portable transfer pump, and placed into an appropriate specification drum for the material. Because the secondary containment units are tightly constructed, and the surface material on which the secondary containment area is placed while material is present is constructed of an impervious material (concrete or asphalt), there should be no risk of soil contamination. All accumulated liquids and collected clean-up materials will be labelled and marked as appropriate for the material. Samples of materials released shall be taken if for any reason a question arises as to composition or hazard due to multiple container releases, water or extinguishing material dilution, etc.

Should soil contamination somehow occur, a layer of soil shall be removed to an adequate depth to assure that all contamination is removed. The contaminated soil shall be placed into open-top drums and sealed for proper disposition.

Appropriate safety equipment usage shall be enforced during all transfer and clean-up activities. Proper documentation of the incident in the facility records shall be made. Reporting of the incident to Federal, state, local, and Company personnel shall be undertaken as appropriate. In the event that the Contingency Plan must be implemented and the incident is reportable as defined by 40 CFR 264.56(J), a written report shall be filed with the Regional office of the USEPA and the appropriate state office.

In addition to any reports required by government agencies, VW&R requires incidents to be reported within 48 hours to the appropriate Regional Operations Department.

If for some reason released material were to escape the secondary containment area, the Coordinator shall dispatch response personnel to contain the leakage by means of an inert material such as sandbags, Hazorb absorbent, or standard industrial absorbents (Zorb-All). The same procedures, efforts, clean~up, safety considerations, assessments, and documentation/reporting requirements shall be followed as was outlined previously.

All receipts of waste materials shall be ceased until clean-up proceedings are completed and activities are returned to normal.

Collected materials from a release situation will typically be disposed of through McKesson Envirosystems Company\* In the event that they were unable to deal with the materials based on permits and/or technology, an outside disposal firm would be contracted with to make disposition of the material. In any event, the Coordinator shall be responsible to ensure that the firm handling the disposion of the material is properly permitted and has the resources to deal with the residue in a proper fashion.

All equipment used in clean-up which may have become contaminated during such activities shall be decontaminated using materials as appropriate to cause removal of the contaminant. The resulting material from the

\* or other proper recycling or disposal facility.

DEC 44

Van Waters & Rogers Inc.
Contingency Plan
Page 11.

decontamination process shall be placed within a residual clean-up container for disposal, unless it is deemed incompatible with materials already contained in such vessel.

During any emergency situation, the Emergency Coordinator will take all reasonable measures necessary to ensure that fires, explosions, and releases, do not occur, recur, or spread to other unaffected areas of the facility. These measures must include, where applicable, stopping processes and operations, collecting and containing released waste, and removing and/or isolating containers.

Immediately after an emergency, the Coordinator or his alternate must provide for treating, storing, or disposing of recovered waste, contaminated surface water, or any other material that results from a release, fire, or explosion at the facility. Assurances must be made that all of these endeavors are undertaken in the appropriate manner as governed by Federal, state, and local laws. Residual material from clean-up operations shall be properly stored, marked, labelled, and handled to prevent any further incident.

The Emergency Coordinator must ensure that in an emergency situation, no waste which might be of an incompatible nature with released material is stored within the affected area of the facility until clean-up procedures are completed.

Van Waters & Rogers Inc. Contingency Plan Page 12.

All emergency equipment listed in the Contingency Plan present at the facility and which may have been utilized during the emergency situation must be cleaned, recharged, inspected, replaced, and made fit for use before resuming normal operations.

This VW&R facility has a wide assortment of emergency equipment present for use in different emergency situations. On-site emergency equipment is kept in various designated locations within the warehouse, as well as each truck's having driver kits which contain specific items which may be utilized in potential emergency situations while on the road. A list of equipment and the capabilities of each item present at the facility is included in the appended Contingency Plan.

Fire extinguishers of a dry chemical variety meeting Type ABC fire fighting capabilities are located throughout the warehouse facility in such a manner that no point within the building proper is further than 50 feet from an extinguisher. The facility diagram included in the Contingency Plan locates these units. All extinguishers comply with National Fire Code standards for portable fire extinguishers, and they are inspected after each use and on a routine monthly and annual basis. Records of inspections are maintained.

Emergency and safety equipment available for use in an emergency is kept in the warehouse in designated areas as shown on facility diagram in the Contingency Plan, and includes the following:

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BUTYL RUBBER ACID SUITS - protection of the wearer from contamination during container transfers or other emergency situations.

RUBBER BOOTS - same as butyl rubber acid suits; foot protection.

RUBBER GLOVES - same as butyl rubber acid suits; hand protection.

CHEMICAL GOGGLES - eye protection from possible splashes during emergency activities.

FACE SHIELDS - face protection from possible splashes during emergency activities.

HARD HATS - head protection from possible blows or contact with hard objects. The wearing of these is standard DSW, Inc. policy.

SELF-CONTAINED BREATHING APPARATUS - a 30 minute self-contained air supply unit which allows the wearer to enter a severe environment to deal with an emergency situation. This unit is compatible with the local fire departments units.

PORTABLE TRANSFER PUMP - utilized for transfer of the contents of a leaking drum into another drum, or for evacuation of the containment area. This unit is explosion-proof so as to not act as a possible ignition source.

EXTENSION CORDS - power supply transfer; of a three-prong grounded variety.

RECOVERY DRUMS - placement of leaking containers into these oversize open top drums is undertaken to prevent further spillage and allow shipment to a facility for disposition; 85 gallon capacity; could be used for spill clean-up materials also.

HAND TOOLS - repairs of equipment.

FIRE EXTINGUISHERS - 10 lb. ABC variety for fire protection.

REFLECTIVE TRIANGLES - traffic control.

FIRST AID KITS - minor medical treatment.

NEUTRALIZER SOLUTIONS - to neutralize and flush the eyes of an individual who might have material come into contact with the eye.

FLASHLIGHTS - emergency and portable lighting.

^ Revised 1886

Van Waters & Rogers Inc.
Contingency Plan
Page 14.

ABSORBENTS - the collection and clean-up of spill residue; could also be used to construct a temporary containment dike in an emergency situation.

SAND - same as "Absorbents".

BANDING TOOLS - device can be used to apply  $\frac{1}{2} - \frac{1}{2}$ " fiber banding around a container with a patching material to stop a leak.

SAFETY SHOWER - flushing of an individual with a constant water supply to remove any contamination with which an individual may have come into contact.

All pieces of equipment are routinely inspected to assure their readiness for use in an emergency situation. Review on the use of articles of safety equipment is undertaken periodically during the monthly safety meetings conducted at the facility with appropriate personnel. These meetings are documented.

VW&R has provided copies of the Contingency Plan, including site plot layout diagrams to the local emergency agencies which would be contacted for assistance in an emergency. Acknowledgements of the receipt of these materials from the appropriate agencies is on file at the facility. The contents were explained to the agencies and their input was accepted. The agencies receiving these materials are typically:

Local Fire Department

Local Police Department

Local Hospital and/or Emergency Center

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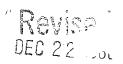
Van Waters & Rogers Inc. Contingency Plan Page 15.

The Emergency Coordinator shall decide whether to evacuate the facility in any emergency situation. In the event a determination is made that a situation is present which warrants facility evacuation, the Coordinator must assure that the following actions are carried out:

- Signal for plant evacuation.
- All individuals shall vacate the facility in an orderly manner to the congregation point designated on the site diagram included in the section "Topographic Maps".
- All persons which have not been assigned to render assistance in the control of the emergency situation by the Coordinator shall remain at the congregation point to be accounted for by the designated person(s). Reentry into the building, or permission to leave the site may only be granted by the Coordinator so as to assure all persons' being accounted for.
- In the event that an individual is determined to be missing at the congregation point the assigned individual whose responsibility it is to take a head count, shall notify the Coordinator of the missing person's identity. The Coordinator shall assess the conditions present and take appropriate actions to conduct a search.
- Drills shall be conducted at 6-month intervals in order to reinforce evacuation procedures.

As required under the regulations, a written report of emergency events shall be made within 15 days to the USEPA Regional Office and the appropriate state agency. The following information shall be provided in such report:

- 1. Name, address, and phone number of the owner or operator.
- 2. Name, address, and phone number of the facility.

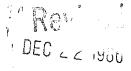


- 3. Date, time, and type of incident
- 4. Name and quantity of material(s) involved.
- 5. Extent of injuries (if any).
- An assessment of actual or potential hazards to human health or the environment, where applicable.
- Estimated quantity and disposition of recovered material that resulted from the incident.

These reporting requirements are above and beyond all VW&R reporting procedures which shall be adhered to and forwarded within 48 hours or less to the appropriate Regional Office of VW&R

The Contingency Plan will be reviewed and immediately amended whenever:

- 1. The facility permit is revised.
- 2. The plan fails in an emergency.
- 3. The facility changes in its design, construction, operation, maintenance, or other circumstances in a way that significantly increases the potential for fires, explosions, or releases, or changes in the response necessary in any emergency.
- 4. The list of Emergency Coordinators change.
- 5. The list of emergency equipment changes.



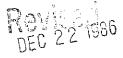
Contingency Plan Page 17.

Because this facility has no tanks present containing waste materials, the Contingency Plan does not address spills or leaks from such vessels.

This facility likewise does not have waste piles present, and thus requirements under the regulations regarding planning for emergency situations for such waste management techniques are not applicable.

This facility does not utilize surface impoundments as a means of managing hazardous waste. Therefore regulations under this section which address this type of storage and the necessary emergency planning for such are not applicable.

This facility does not utilize any type of incinerator as a means of handling hazardous waste. Therefore regulations under this section which address this type of disposal and the necessary emergency planning for such, are not applicable.



Van Waters & Rogers Inc.

Contingency Plan
Page 18.

This facility employees approximately 24 people in total, which simplifies the nature and relative complexity of accounting for individuals.

The facility has an alarm system to alert all employees as to an evacuation condition caused by fire, and to summon the fire department. The phone system is also equipped with an intercom which allows conversation between different areas of the building to initiate a total facility evacuation.

MATERIAL SAFETY DATA SHEET PAGE: 1
DOW CHEMICAL U.S.A. MIDLAND MICHIGAN 48640 EMERGENCY PHONE: 517-636-4400

EFFECTIVE DATE: 02 JUN 77 DATE PRINTED: 6 DCT 77 PRODUCT CODE: 55590

PRODUCT NAME: METHYLENE CHLORIDE, TECH.

MSD: 0009

INGREDIENTS (TYPICAL VALUES-NOT SPECIFICATIONS)

9,0

METHYLENE CHLORIDE, ESSENTIALLY

: 100 :

SECTION 1

PHYSICAL DATA

BOILING POINT: 104F (39.8C) : SDL. IN WATER: 2.0G/100G & 25C VAP PRESS: 340 MMHG @ 20C : SP. GRAVITY: 1.320 & 25/25C VAP DENSITY (AIH=1): 2.93 : % VOLATILE BY VOL: 100 (ESSEN1.) APPEARANCE AND ODOF: COLORLESS LIQUID.

SECTION 2

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: NONE : FLAMMABLE LIMITS (STP IN AIR)
METHOD USED: TOC. TCC. COC : LFL: SEE SEC. 3+ UFL: SEE SEC. 3+
EXTINGUISHING MEDIA: WATER FUG. NON-FLAMMABLE.
SPECIAL FIRE FIGHTING EQUIPMENT AND HAZARDS: SELF-CUNTAINED RESPIRATORY
EQUIPMENT.

SECTION 3

REACTIVITY DATA

STABILITY: STABLE.

+SEE JOURNAL OF CHEMICAL AND ENGINEERING DATA 17 (1) 69-93 (1972) FOR FLAMMABILITY LIMITS AT OTHER THAN STANDARD TEMPERATURE AND PRESSURE.

INCUMPATIBILITY: ----

HAZARDOUS DECUMPOSITION PRODUCTS: OPEN FLAMES AND \*ELDING ARCS CAN CAUSE THERMAL DEGRADATION WITH THE EVOLUTION OF HYDROGEN CHLOFIDE AND VERY SMALL AMOUNTS OF PHOSGENE AND CHLORINE.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 4 SPILL, LEAK, AND DISPOSAL PROCEDURES

ACTION TO TAKE FOR SPILLS (USE APPROPRIATE SAFETY EQUIPMENT): SMALL SPILLS: MUP UP, WIPE UP OR SOAK UP IMMEDIATELY. REMOVE TO OUT OF DOORS.

LARGE SPILLS: EVACUATE AREA. CONTAIN LIQUID; TRANSFER TO CLUSED METAL CONTAINERS. KEEP OUT OF WATER SUPPLY.

DISPOSAL METHOD: SEND SOLVENT TO A RECLAIMER. IN SOME CASES IT CAN BE?

(CONTINUED ON PAGE 2 )

MATERIAL SAFETY DATA SHEET PAGE: 2 DOW CHEMICAL U.S.A. MIDLAND MICHIGAN 48640 EMERGENCY PHONE: 517-636-4400 PRUDUCT CODE: 55590

PRODUCT (CONT'D): METHYLENE CHLURIDE, TECH.

MSD: 0009

SPILL, LEAK, AND DISPOSAL PROCEDURES (CONTINUED) SECTION 4 DISPUSAL METHUD: (CONTINUED)

TRANSPORTED TO AN AREA WHERE IT CAN BE PLACED ON THE GROUND AND ALLUWED TO EVAPORATE SAFELY. REFER TO CHEMICAL SAFETY DATA SHEET SD-86. MANUFACTURING CHEMISTS ASSOCIATION, 1825 CONNECTICUT AVENUE, WASHINGTON, D.C., 20009

SECTION 5

HEALTH HAZARD DATA

INGESTION: LOW SINGLE DOSE DRAL TUXICITY. LD50 (RATS) IS 1.6 G/KG. EYE CONTACT: PAINFUL AND SLIGHT IRRITATION. CORNEAL INJURY UNLIKELY. SKIN CONTACT: SHORT CONTACT - NO IRRITATION. PROLUNGED OF FREQUENTLY REPEATED CONTACT - POSSIBLE IRRITATION. IF CONFINED TO SKIN - MAY CAUSE A BURN.

SKIN ABSURPTION: VERY LOW. HAZARD NOT SIGNIFICANT. INHALATION: TENTATIVE TLV 200 PPM (1975).

EFFECTS OF OVEREXPUSURE: INCREASING SIGNS OF ANESTHESIA ABOVE 900 PPM IN THE ATMOSPHERE. CARBOXYHEMOGLOBIN LEVELS MAY BE ELEVATED.

SECTION 6

FIRST AID -- NUTE TO PHYSICIAN

FIRST AID PROCEDURES: CAUTION - NEVER GIVE FLUIDS OR INDUCE VOMITING: IF PATIENT IS UNCONSCIOUS OR HAVING CONVULSIONS.

EYES: FLUSH WITH PLENTY OF WATER. GET MEDICAL ATTENTION IF IRRITATION · DEVELUPS.

SKIN: FLUSH WITH PLENTY OF WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.

INHALATION: IF ILLNESS OCCURS, REMOVE PATIENT TO FRESH AIR, KEEP HIM QUIET AND WARM. GET MEDICAL ATTENTION. IF BREATHING STOPS, START ARTIFICIAL RESPIRATION.

INGESTION: INDUCE VOMITING. CALL A PHYSICIAN IMMEDIATELY. NOTE TO PHYSICIAN: CAUTION: WITH SOME SOLVENTS, DRINKING ALCOHOL BEFORE. DURING OR AFTER EXPOSURE MAY CAUSE UNDESTRABLE EFFECTS. OVEREXPOSURE TO MANY OF THE CHLORINATED SULVENTS, ESPECIALLY IF ACCOMPANIED BY ANOXIA, MAY TEMPORARILY INCREASE CARDIAC IRRITABILITY. MAINTAIN ADEQUATE OXYGENATION UNTIL RECOVERY. AVOID SYMPATOMIMETIC AMINES, SUCH AS EPINEPHRINE, WHICH MAY PRECIPITATE ARRHYTHMIAS. EXPOSURE TO METHYLENE CHLORIDE PRODUCES CARBOXYHEMOGLOBIN WHICH MAY PERSIST SOMEWHAI LONGER THAN THAT DUE TO CARBON MONOXIDE EXPOSURE.

SPECIAL HANDLING INFORMATION SECTION 7

VENTILATION: LIMIT CONCENTRATION IN AIR TO TLV. RESPIRATORY PROTECTION: BELOW 200 PPM - NUNE; RESPIRATORY PROTECTION REQUIRED IN THE ABSENCE OF ENVIRONMENTAL CONTROL. FOR LEVELS UP TO 2%

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(CUNTINUED ON PAGE 3 )



MATERIAL SAFETY DATA SHEET PAGE: 3
DOW CHEMICAL U.S.A. MIDLAND MICHIGAN 48640 EMERGENCY PHONE: 517-636-4400
PRODUCT CODE: 55590
PRODUCT (CONT'D): METHYLENE CHLORIDE, TECH.
MSD: 0009

SECTION 7 SPECIAL HANDLING INFORMATION (CONTINUED)
RESPIRATORY PROTECTION: (CONTINUED)

FOR 1/2 HOUR OR LESS, A SUITABLE FULL-FACE MASK WITH ORGANIC CANISTER SHOULD HE USED. ABOVE 2% AND FOR EMERGENCIES, USE A SELF-CONTAINED BREATHING APPARATUS.

PROTECTIVE CLOTHING: NO SPECIAL PROTECTIVE CLOTHING NEEDED. EYE PROTECTION: SAFETY GLASSES WITHOUT SIDE SHIELDS. EYE WASH STATIONS AND SAFETY SHOWERS SHOULD BE READILY AVAILABLE.

SECTION 8 SPECIAL PRECAUTIONS AND ADDITIONAL INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: EXERCISE REASONABLE CARE AND CAUTION. AVOID BREATHING VAPORS. STORE IN COOL PLACE.

ADDITIONAL INFORMATION, IF ANY: ----

LAST PAGE

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESS OR IMPLIED, IS MADE.

Line

# U.S. DEPARTMENT OF LABOR

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WAGE AND LABOR STANDARDS ADMINISTRATION
Bureau of Labor Standards

# MATERIAL SAFETY DATA SWEET

SECTION I					
MANUFACTURER'S NAME PPG Industries, Inc.	ě	EMERGENCY TELEPHONE NO. (318) 882-1200			
ADDRESS (Number, Niver), City, State, and ZIP Code) No. 1 Gateway Center, Pittsburgh, Pa	. 15222				
CMEMICAL NAME AND SYNONYMS  1,1,1-trichloroethane, methylchlorof	orm	TRADE NAME AND SYNONYMS TRI-ETHANE			
Chiorinated Hydrocarbons	FORMULA	CH3CCl3			

SECTI	H KC	HAZA	adous ingredients		
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLY (Units)	ALLOYS AND METALLIC COATINGS	8	TLY (Un.19)
PIGMENTS			BASE METAL	İ	
CATALYST			ALLOYS		
VENICLE			METALLIC COATINGS		
SOLVENTS	100	350	FILLER METAL PLUS COATING OR CORE FLUX		
ZIVITICOA			OTMERS		:
OT WERS					***
MAZARDOUS MIXTUR	25 OF O	THER LIG	UIDS, SOLIDS, OR GASES	8	TLV (Units)
			-		
			,		· · · · · · · · · · · · · · · · · · ·

10	III KOITOZZ	PHYSICAL DATA	
ROILING POINT PF.)	165.4	SPECIFIC GRAVITY IM20-11	1.31
VAPOR PRESSURE (From Mg.)	120	PERCENT VOLATILE	100
VAPOR DENSITY (AIR=1)	4.54	EVAPORATION RATE	0.35
SOLUBILITY IN WATER	Negligi	ole ·	
APPLARANCE AND ODOR Colorle	ess appearance,	ethereal odor	

\$	ECTION IV	FIEE AND	EXPLOSION HAZA	RD DATA_		
LASH POINT IMPINION USED!	e (Tag. o	pen or clo	sed) FLANMABLE LIN	175	1+1	- Uni
ETINGUISHING WIDIA		-	<u> </u>			
SPECIAL FIRE FIGHTING PROCEDU					·	
		······································				
CALIFORNIAL ORE THE TAND FEET USING M	AZARDS Vai	pors can b	e ignited only	by high int	ensity s	ource

2 b. ml 2 at O! (	350 ppm
11116:15 01	OVERFEROSURE Loss of co-ordination and equilibrium to actual unconsciousness,
	and even death, in unventilated areas (such as tanks).
1 N 1 N 1 N 1 N	AND FRST AD PROCEDURES Move to fresh air, use artificial respiration if breathing has
	stopped. Administer oxygen after breathing has been restored. (Never
	administer adrenalin!) Call physician (he should not administer adrenalin)

		SECT!	CH VI S	EACTIVITY DATA .
STABILITY	UNSTABLE		COMPILION	IS TO AVOID
	STABLE	x		,
INC OMPATABILIT	(V (Maisropis in evoid) AV(	oid mixi	ng with	caustic soda and caustic potash.
HAZARDOUS DE	DMPOSITION MODUCT	's landpo:	ssible t	races of phosgene.
₩&Z&@D∩U\$	MAY OCC	MAY OCCUR		CONDITIONS TO AVOID
ACITA TIP 3 WY 10 S	1			·

SIEPS TO BE TAKEN IN CASE! Adequate	MATERIAL IS RELEASED DA : Ventilation must		Marimon	should h	oe provided	with
fresh air m	mask or sent to i	resh air.		<del></del>		
WASTE DISPOSAL METHOD	Forced ventila	stion or evapor	ration.			<u></u>
,	Forced Ventila	stion or evapor	ration.		· · · · · · · · · · · · · · · · · · ·	

,	SECTION VIII 87ECIA	ואו אסודכדוסא וא	- CRMATION	
ORG YECTARISES	RECTION (Specify type) Fresh air ma	sks		
VINTILATION	LOCAL EXMAUST Sufficient to maintain TLV		SPECIAL	
	MECHANICAL (General)	· +	OTHER	
POCTECTIVE GLOV	oprene or Viton	ETE PROTECTION Gla	sses or goggles	
OTHIR PROTECTIV	Neoprene apron			

	SECTION IZ	SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN H	ANDLING AND STORING		
(iloute ion i WilliUM?			
			•



PAGE 1 OF

8/904 tr-9:/	
SECTION I NAME	24 HOUR EMERGENCY ASSISTANCE
PRODUCT Methyl Ethyl Ketone	SHELL 713-473-9461 CHEMTREC 800-424-9300 CD HEALTH
CHEMICAL/ KEK, 2-Dutanone SYNONYMS	HAZARD RATING FIRE
CHEMICAL Ketone FAMILY	MODERATE, MIGH EXTREME
SHELL CODE 31210 C.A.S. NUMBER 78-93-3	2 3 4

SECTION II	INGREDIE	NTS
COMPOSITION	<b>9</b> /2	TOXICITY DATA
Methyl Ethyl Ketone	100	Oral LDso (rat) = 3.3g/kg
		Dermal LDso(rabbit)=>8ml/kg
·		Inhalation LCse (rat) = >2,000ppm/2 hours
		·
	•	

SECTION III

### HEALTH INFORMATION

Eye Contact: liquid is highly irritating to the eyes; vapors are also irritating.

Skin Contact: liquid is moderately irritating to the skin. Repeated, prolonged contact can result in defatting and drying of the skin which may lead to dermatitis.

<u>Inhalation</u>: breathing high vapor concentrations or prolonged breathing of lower concentrations can cause nose and throat irritation and may cause headache, dizziness and loss of consciousness.

Note:

Minor embryotoxic/fetotoxic effects have been observed in laboratory rats exposed to over 1000 ppm of MEK for most of the gestation period by the inhalation route (5X the OSHA-PEL/TWA).

SECTION IV

OCCUPATIONAL EXPOSURE LIMITS

ACGIH-TLV/TWA = 200 ppm -TLV/STEL = 300 ppm OSHA-PEL/TWA = 200 ppm

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SECTION V EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Flush with water for 15 minutes while holding eyelids open.

Get medical attention.

SKIN CONTACT: Wash with soap and water. Remove contaminated clothing and shoes; do not reuse until cleaned. If persistent irritation occurs, get medical attention.

INHALATION: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.

Do not give liquids if victim is unconscious or very drowsy. Otherwise, give no more than 2 glasses of water and induce vomiting by giving 30cc (2 tablespoons) Syrup of Ipecac. If Ipecac is unavailable, give 2 glasses of water and induce vomiting by touching finger to back of victim's throat. Keep victim's head below hips while vomiting. Get medical attention.

SECTION VI			PHYSICAL D	ATA		
BOILING POINT	Þ	175	MELTING POINT .	-125	VAPOR PRESSURE (mmmg)	75@66°F
SPECIFIC GRAVITY (H <sub>2</sub> 0=1)	>	0.81@60/60°F	% VOLATILE BY VOLUME	100	VAPOR DENSITY (AIR= 1)	2.5
SOLUBILITY IN WATER		Appreciable	EVAPORATION RATE (BUTYL ACETATE= 1)	3.8		

Colorless, mobile liquid. Pungent odor.

SECTION VII FIRE AND EXPLOSION HAZARDS

FLASH PGINT AND METHOD USED

FLAMMABLE LIMITS. VOLUME IN AIR LOWER UPPER

23 ° F (TCC)

EXTINGUISHING MEDIA

Use water fog, "alcohol" foam, dry chemical or CO2.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

Evacuate hazard area of unprotected personnel. Wear proper protective clothing including a NIOSH approved self-contained breathing apparatus. Cool fire-exposed containers with water.

UNUSUAL FIRE AND EXPLOSION HAZARDS

INGESTION:

APPEARANCE AND-ODOR

		97004 (10-7	L SAFET			MSDS NUMBER	5,390-3 PAGE 3 OF
SECT	TION VIII	and approximately a second		REACTIN	/ITY		
STABILE	TY >	UNSTABLE	X STABLE	HAZARDOUS P	OLYMERIZATION	MAY OCCUR	WILL NOT OCC
CONDITIO	ONS AND M	ATERIALS TO	AVDID				
Avoid	d heat	, spark	s, open fla	me and con	tact with	strong oxidizing	agents.
and the design of the least of		·					
HAZARDO	DUS DECOM	POSITION PA	ODUCTS			,	
ŧ	on monu		nd unidenti	fied organ	ic compou	nds may be formed	during
	TION IX			EMPLOYEE PR	DOTE CTION		
RESPIRAT	TORY PROTE	ECTION		EMILTO A CE LL	KO I ECTION		
lf ex	xposur	e may o			=	osure limits (Sec	· ·
						re. In accord win pirator or an air	
			er an atmos <u>canic vapor</u>		TATUA 162	Prieror of an arr	-barriand
PROTECT	IVE CLOTH	ING DI	Campe Vapor				
	_	_	•		_	as required to pr	event skin
conta	act.	Wear ch	emical gogg	les to pre	vent eye	contact.	
ADDITIO	NAL PROTE	CTIVE MEASL	JRES				
Use e	explos.	ion-pro	of ventilat	ion as req	uired to	control vapor con	centra-
tions	<b>S</b> .						
				<u>,,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,</u>	·		

## ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES

SECTION X

WARNING. Flammable. Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking.

Large spills: Evacuate the hazard area of unprotected personnel. Wear appropriate respirator and protective clothing. Shut off source of leak only if safe to do so. Dike and contain. If vapor cloud forms, water fog may be used to suppress; contain run-off. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal. Flush area with water to remove trace residue; dispose of flush solutions as above.

Small spills: take up with an absorbent material and place in non-leaking CONTAINERS; seal tightly for proper disposal. WASTE DISPOSAL

Place in a disposal facility approved under RCRA regulations for hazardous waste (See Sec. XIII). Use non-leaking containers, seal tightly and label DE ODETLY . ENVIRONMENTAL HAZARDS

SECTION XI	
------------	--

## SPECIAL PRECAUTIONS

WARNING. Flammable Liquid.

Keep away from heat, sparks and open flames. Keep containers tightly closed. Store away from strong oxidizing agents in a cool, dry place with adequate explosion-proof ventilation. Ground equipment to prevent accumulation of static charge. If pouring or transferring materials, containers must be bonded and grounded.

Do NOT weld, heat or drill on or near container; even emptied containers can contain explosive vapors.

Wash with soap and water before eating, drinking, smoking or using toilet facilities. Launder contaminated clothing before reuse.

	TRANSPORTATION REQUIREMENTS	
DEPARTMENT OF TRANSPORTATION CLASSIFICATION	X FLAMMABLE LIQUID COMBUSTIBLE LIQUID OXIDIZING MATERIAL  FLAMMABLE SOLID POISON, CLASS A CORROSIVE MATERIAL  FLAMMABLE GAS POISON, CLASS B IRRITATING MATERIAL	NON-FLAMMABLE GAS  NOT HAZARDOUS D.O.T. REGULATIO  OTHER-Specify bei
D.O.T. PROPER SHIPPIN	NG NAME	
Methyl Ethyl OTHER REQUIREMENTS	l Ketone	· ·
D.O.T. ID.#	= UN1193. Guide Sheet 26.	
SECTION XIII	OTHER REGULATORY CONTROLS	
#1 1011 B 101 B 101 101 101 101 101 101 1	PSC,etc.	
		) E
EPA - Resour	rce Conservation and Recovery Act (RCRA) Regulation	
EPA - Resour This product	rce Conservation and Recovery Act (RCRA) Regulation t has been designated by the EPA (RCRA 40 CFR 261.3	33) as a
EPA - Resour This product hazardous wa	rce Conservation and Recovery Act (RCRA) Regulation	33) as a discarded as

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.



SHELL OIL COMPANY
PRODUCT SAFETY AND COMPLIAN
OIL AND CHEMICAL PRODUCTS
P.O. BOX 4320
HOUSTON.TEXAS 77210

DATE PREPARED

March 16, 1982





# Procedures, Structures, Equipment

(40 CFR Sec. 122.25(a)(8))

The hazardous waste management activities undertaken at this facility of W&R is that only of temporary storage of drummed solvents which are defined as hazardous wastes. There is but one location at the facility which is utilized for loading and unloading of materials received from off-site generators. The loading/unloading area is designated on the facility diagram.

This facility receives less than truckload quantities of waste materials from off-site generators and temporarily stores them in order to accumulate economical truckloads of these materials to warrant the distances involved in reaching the recycling centers to which these waste materials are ultimately destined.

The amount of handling of the drummed materials while at the facility is kept to an absolute minimum to minimize the likelihood of damage and possible release. Once trucks carrying waste materials are at the dock area and secured by means of wheel chocks, forklifts are utilized to transfer the drums from the truck onto wooden pallets in the staging area at the loading and unloading area. Drums are placed four to a pallet, and once the necessary administrative procedures and verification counts have been made as outlined under "Containment Management Practices", full pallets are carried by forklift to the designated storage area where they remain on the pallet. While in storage, the drums are inspected in accordance with the inspection schedule listed in Table 1. Sufficient spacing around each pallet of drums is maintained to ensure the avoidance of damaging drums while placing pallets adjacent to another.

DEC 22 ideo

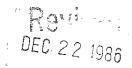
Van Waters & Rogers Inc.

Procedures, Structures, Equipment
Page 2

Once an economic truckload quantity of material is accumulated, the full pallets of drums are brought to the staging area at the dock, prepared for shipment, and placed onto the vehicle transporting them to the recycling center. Because of the minimal handling during the materials presence at the facility site, the likelihood of spills is minimal, but should an incident occur, spilled material would be contained and picked up by use of Hazorb or other industrial absorbents which are readily available at the site. Any contaminated material shall be picked up and placed in an openhead drum compatible with the material, and sent to a properly permitted disposal facility.

As will be outlined in the section "Secondary Containment System Design and Operation", any water runoff from the designated waste storage area will be caught in the containment area by the berm. Upon examination of the collected water, with no evidence of contaminants, the water can be released and ultimately feeds into the municipal storm sewer system. Should evidence of a spill be present in the berm area, an analysis of the effluent will be conducted if it is not evident as to the source and nature of the contaminant. Once the contaminant is identified, all effluent in the berm area shall be drummed by means of a portable pump, and held until arrangements can be made for its proper disposition to an appropriately registered and equipped disposal site. All other run-off from the property flows to the municipal storm sewer system.

Ground water contamination is prevented at this facility by assuring that all containers of waste materials are stored in a closed, good quality drum, and remain at all times in the designated hazardous waste storage area which



Van Waters & Rogers Inc.

Procedures, Structures, Equipment
Page 3

has the secondary containment system protection described in detail in the section entitled "Secondary Containment System Design and Operation". The design, operation, inspection, and construction of this area is such, as to minimize the threat of possible ground water contamination.

Because of the absence of process operations at this facility in which an equipment or power failure could cause a threat to human health or the environment, the impact of such an occurrence would be negligible. However, in the event that loading or unloading activities might be under way during a power failure, and the available light were of an insufficient nature to safely complete the task, operations shall be ceased until the power company is notified and the cause of the failure discovered and repaired. Any problems which might be isolated to a specific area of the facility or a particular machine shall be brought to the manager's attention for corrective actions with support from Regional Operations if required.

Sheets for the products which they distribute. Copies of the appropriate Material Safety Data Sheets for specific chemical materials handled in waste form follows the "Contingency Plan" section. These data sheets are kept on file and are updated routinely so that facility personnel have accurate information available regarding toxicity, fire and explosion hazards, protective equipment recommendations, and first aid. Available protective and emergency equipment which is kept at the facility is presented in the section entitled "Contingency Plan". Use of personal protective equipment is strictly enforced and is covered in the employees initital training, as well as being reinforced on a routine basis in monthly safety meetings which

Van Waters & Rogers Inc.

Procedures, Structures, Equipment
Page 4

are conducted by the facility management.

Revised DEC 22 10

Prevention of Reaction of Ignitable, Reactive, or Incompatible Wastes
(40 CFR Sec. 122.25(a)(9), 122.25(b)(1), 122.25(b)(2), 122.25(b)(4))

A VW&R storage facility handles materials in waste form from off-site generators who wish to employ the Company's recycling capabilities. This site functions as a temporary storage and transfer point for accumulating economic truckloads to make it economically feasible to reship these materials the distance involved in getting to the recycling centers.

Some of the materials handled in waste form at this facility are expected to fall into the category of an ignitable. This facility will not handle any materials which would be classified as a reactive waste and for which special precautions would be required. All waste materials are stored in the designated waste storage area indicated on the facility diagram.

All containers (drums) utilized for shipments of waste materials are of proper specifications as outlined in the section entitled "Containers Utilized Holding Free Liquids", to contain, store, and transport the materials handled.

All containers of waste material are tightly closed while in storage. The waste storage area is isolated from vehicle traffic pattern, and the activities conducted in the yard area are limited. It is VW&R 's policy that no smoking is allowed in any areas of the facility other than office and breakroom areas. "No Smoking" and "Danger-Unauthorized Personnel Keep Out" signs are prominently posted. Personnel are instructed and familiar with the required precautions which must be exercised when working around ignitable materials such as the use of spark proof tools, elimination of possible ignition sources, etc.

Prevention of Reaction of Ignitable, Reactive or Incompatible Wastes
Page 2

In the event that a leaking container is discovered and requires transfer while in storage at this site, only clean, new or reconditioned containers of the proper specification for the material will be utilized.

Containers of ignitable wastes while present at this facility are handled with the respect they deserve in order to minimize the possibility for fire or explosion. All containers must be kept tightly sealed and be in good condition (including proper labelling and marking) prior to our drivers' accepting them at the generator's facility. Drums are placed on wooden pallets and remain on these pallets while in storage to reduce handling. Pallets of waste materials while in storage in the designated hazardous waste storage area are typically stacked two, but in no case more than three high. Space is maintained around stacks of pallets to facilitate inspection of the drums. Stacks will be maintained in a neat manner with no overhang or leaning. Only good quality wooden pallets shall be used. The designated hazardous waste storage area is more than 50 feet from the facility property lines as required.

Containers of waste materials destined for recycling which are received at this facility are already sealed by the generator and shall remain sealed unless a leaking container were discovered, in which case it is transferred to a different container - a clean drum meeting the proper specification for the material involved. Customers (generators) who employ our services are encouraged to use the same container for the waste material which originally held the virgin product, unless another commodity which is not compatible with that container has been introduced into the waste stream. This minimizes the like-lihood of container incompatibility with the material, as well as the solvents'

Van Waters & Rogers Inc.

Prevention of Reaction of Ignitable, Reactive or Incompatible Wastes
Page 3

(residue vs. waste) possibly being incompatible and causing a reaction or the loss of the reclaim value of the material. Materials typically handled by this facility for recycling are compatible with each other in that when combined they do not cause a reaction. Attention is given to having customers avoid these practices because of the potential problems which could result, and the rendering of the materials as of no value because of the inability to recycle the material.

This facility does not utilize tanks for the management of waste materials of any kind so the regulations pertaining to the management of ignitable, reactive, or incompatible wastes in such vessels is not applicable.

This facility does not utilize waste piles for the management of waste materials of any kind so the regulations pertaining to the management of ignitable, reactive, or incompatible wastes by this means is not applicable.

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# Traffic Patterns

(40 CFR Sec. 122.25(a)(10))

The

VW&R

branch in Bedford Heights has the following

trucking fleet:

Four - 3-axle tandem tractors
One - 2-axle tandem tractor
Two - 32 foot van trailers
Five - 40 foot van trailers
One - Straight truck

These units are registered with the Public Utilities Commission of Ohio and are permitted to transport hazardous waste. The maximum gross vehicle weight of the largest tractor/trailer combination at this facility is 73,000 pounds (loaded).

All roads travelled are of either bituminous or concrete construction with load-bearing capacity to withstand even the largest vehicle assigned to this facility. All traffic areas within the facility's boundaries are concrete.

Once a truck has entered the facility and backed into the loading dock, the branch personnel will utilize our LPG fueled forklift with a 4,000 pound capacity to remove drums of spent solvent from the van trailer; if they do not arrive on pallets, they will be palletized immediately - four drums to a pallet.

There will be no discernable increase in traffic to or from the branch because of the branch's hazardous waste handling, since essentially all pickups of spent solvents will be made by trucks already on the customer's premises by virtue of a delivery.

Van Waters & Rogers Inc.

Traffic Patterns
(40 CFR Sec. 122.25(a)(10))
Page 2.

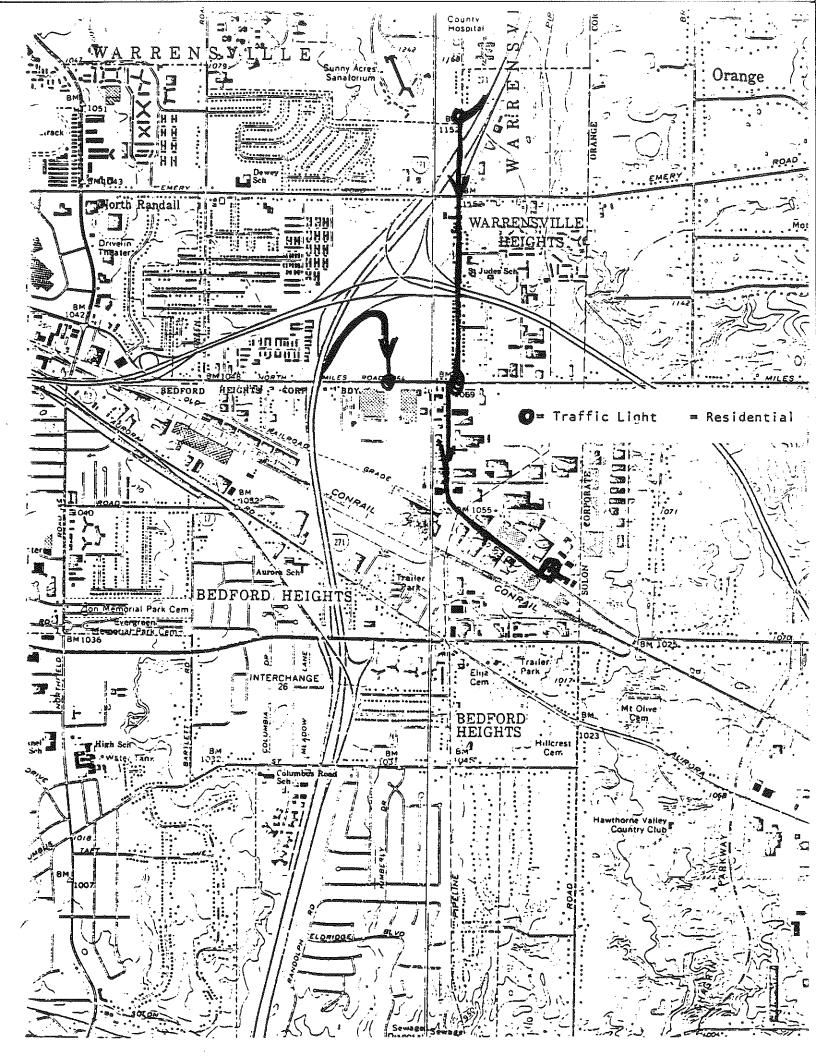
The Interstate Highway nearest the VW&R facility is 1-271. VW&R trucks returning Northbound turn off at Miles Road and head East on Miles for about a quarter of a mile to the intersection with Richmond Road. The branch is located about 3/4 mile South on Richmond. This route is essentially all industrial.

Southbound truck traffic turns off Interstate 1-28; at Richmond Emery Road, and then follows Richmond directly to the branch. Some of this route is residential, and is highlighted in yellow on the following map.

These routes and the traffic control devices encountered are delineated in the following map.

It should be kept in mind that pickups and deliveries of spent solvents will be relatively infrequent, that often the 55-gallon drums will constitute only part of the load, and that the hazardous waste solvents involved were all transported along these routes and in this equipment in the first place.

The concrete area within the yard is 8 inches thick with 6 inch by 6 inch mesh of No. 6 reinforcing rod. The specified load-bearing capacity is 3,000 lbs/sg. in.



Facility Location Information

(40 CFR Sec. 122.25(a)(ii,v); Part 264 Appendix VI)

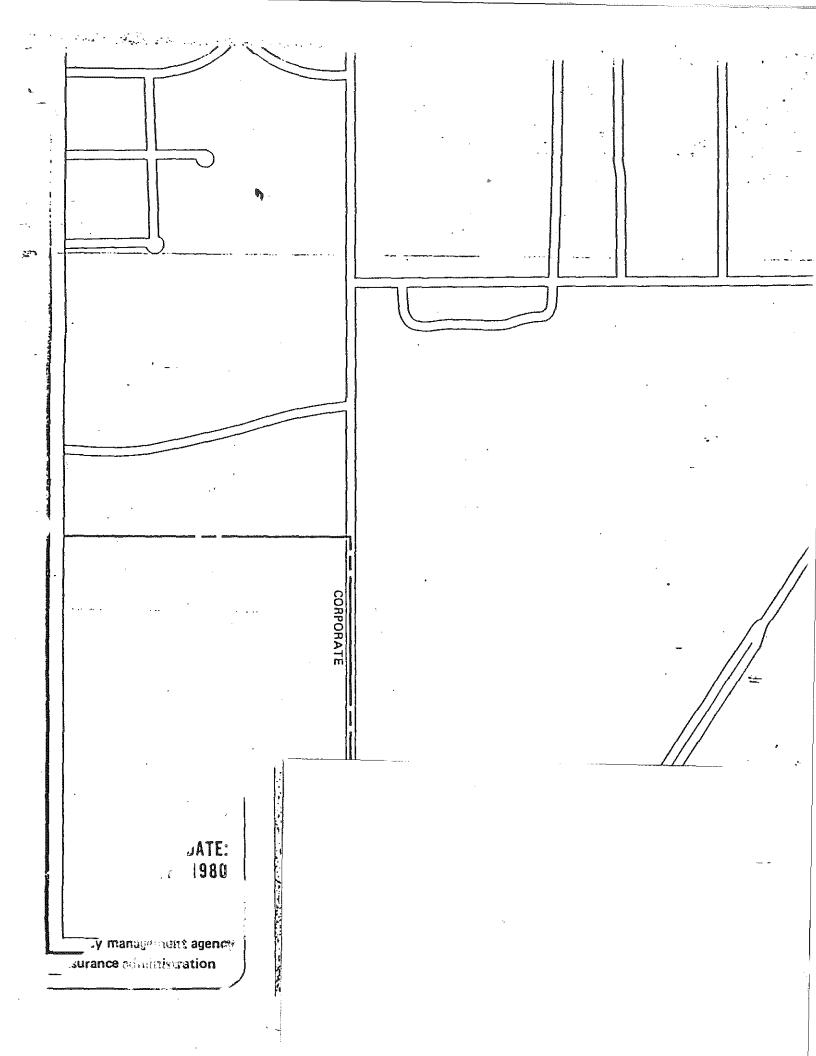
Floodplain - The floodplain map for this area, supplied by the United States Department of Housing and Urban Development, Federal Insurance Administration, indicates this location not to be affected; the appropriate section of the relevant map follows.

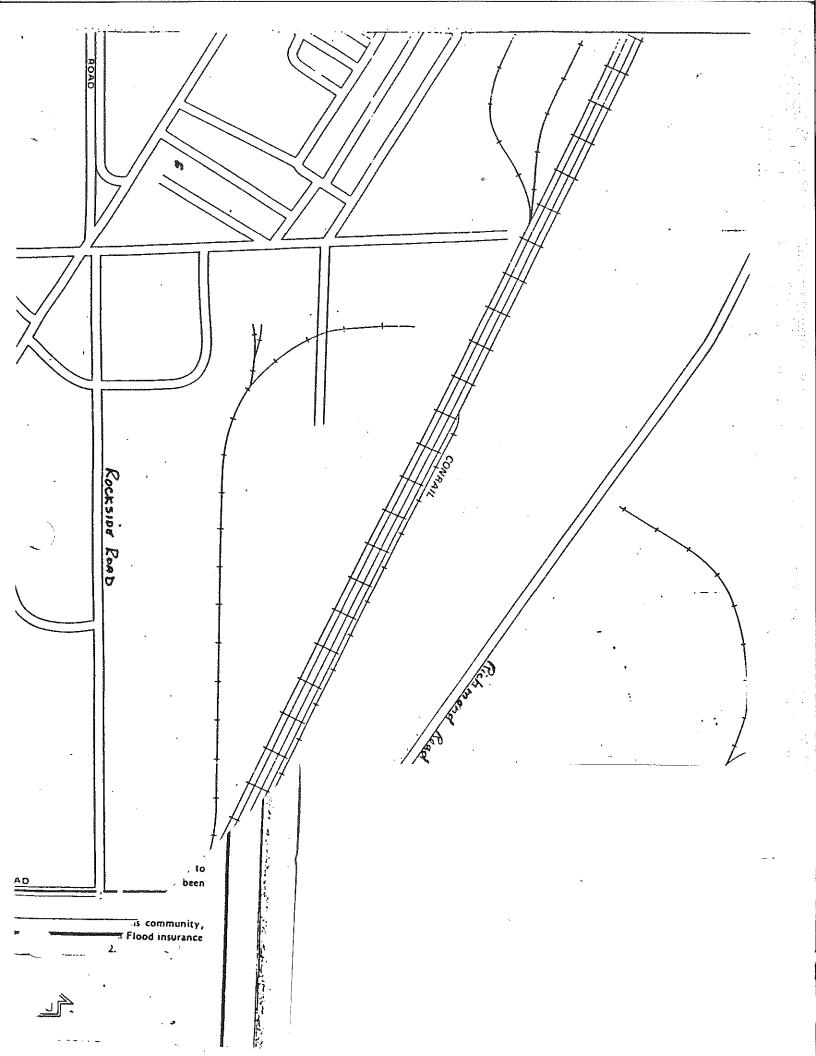
Seismic Considerations - Potential seismic activity is not a factor at this location.

<u>Wind Rose</u> - A statistical analysis of wind direction at Cleveland

(Percent Frequency by Direction) was furnished by the Ohio EPA. A copy
follows.

Revised DEC 221





#### PART 52-AFFROYAL MID PROMULGATION OF IMPLEMENTATION PLANS

Part 52 of Tittle 40, Code of Føderal Regulations is amended as follows:

#### Subpart VV - Varginia

1. la § 52.2438, Identification of plan, paragraph (c)(47) is added as fellows:

### § 52.2420 Hamblication of plan.

(c) \* \* \*

(47) Amendments to Chapter 1 of all nonattainment plans; amendments to Chapter 11 of the Richmond, Northern Virginia. Peninsula and Southeastern plans; amendments to Chapter 9 of the Roanoke and Stafford plans; addition of Appendices A and B to all plans: amendments to Chapter 3 of the Northers Virginia, Peninsela. Southeastern, Roanoke and Stafford plans; amendments to Chapter 10 of the Richmond, Peninsula and Southeastern plans; addition of Appendix C to the Northern Virginia Plan; and, certain revisions to Chapter 5 of all plans were submitted by the Secretary of Commerce and Resources on April 12, 1981. Revision of Chapter 10 of the Northern Virginia plan submitted on July 23, 1981.

#### § 52.2431 [Amended]

2. In § 52.2431, Control Strategy: Carbon monoxide and ozone, remove paragraph (e).

[FR Doc. 81-32222 Filed 21-28-81; 2:45 am] BALLING COOK SERS-61-81

### 40 CFR Part 284

(SWH-FRL 1909-1)

Standards Applicable to Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities

AGENCY: Environmental Protection Agency (EPA). ACTIONE Interior rule.

SUMMARY: EPA is today revising Appendix VI to 40 CFR Part 204. Appendix VI lists political jurisdictions within which the probability of Holocene fault displacement and deformation warrants a geologic investigation in order to demonstrate compliance with the seismie location standard for hazardous waste management facilities in § 284.18(a). Facilities not located in these areas are presumed to be in compliance with the standard. This amendment deletes from Appendix VI those areas where the risk of facility damage due to fault

displacement and deformation does not warrant a goological investigation. This amendment is the result of EPA's review of public comments and new information received after Jesuary 12.

DATES: This interim final amendment is effective on November 23, 1961. Comments are due on or before December 23, 1981.

ACCRESSES: Comments should be addressed to Deness Shrader, Docket Clerk, Office of Solid Waste (WH-582), U.S. Environmental Protection Agency. 401 M Street, SW, Washington, D.C. 20460. Commenters should identify this rulemaking as follows: 'Docket No. 3004, Appendix VI to Part 284". The public docket for this regulation is. located in Room 2711, U.S. Environmental Protection Agency, 401 M Street, SW., Washington, D.C., and is available for viewing from \$230 a.m. to 4:00 p.m., Monday through Priday, excluding bolidays.

FOR FURTHER INFORMATION CONTACT: Cindy Hoppmann, Office of Solid Waste (WH-555), U.S. Environmental Protection Agency, 401 M Street, SW., Washington, D.C. 20469, (202) 755-9201. SUPPLEMENTARY INFORMATIONS

#### L Authority

This amendment is issued under the authority of Sections 2002(a) and 3004 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1975, as amended. 42 U.S.C. 8912(a) and 8924.

#### IL Background of and Basis for Amendment

On January 12, 1981 (46 FR 2802), KPA promulgated permitting standards for new and existing hezardous waste management facilities. Section 284.18(a) of these standards prohibits the issuance of a permit to a new facility which is located within 200 feet of a fault which has had displacement in Holocene time. Compliance with this standard must be demonstrated by a geologic investigation. See § 122.25(a)(11).

The January 12 standards do not require a geologic investigation in all areas, however. As noted in the preamble to the standards, not all areas of the United States are affected by Holocene faulting (48 FR 2810-2813). EPA concluded that requiring a geological investigation in areas known not to have Holocene faults would impose an unnecessary régulatory burden and cost on a hazardous waste management facility. Thus, a geological investigation is required only for those areas which have some historical

evidence of faulting or potential for such faulting. These areas are fisted in Appendix VI to Part 264. I EPA based its selection of those areas on two maps: The "Map for Coofficient As" (coefficient As is a measure of ground motion) by the Applied Technology Council (1978), and the "Preliminary Map of Young Faults in the United States as a Guide to Possible Pault Activity" by Howard and others of the United States Geological Survey (1978) (hereinafter "USGS Map").

EPA also stated in the January 12 preamble that Holocene deposits and landforms (e.g., fault scarps, offset streams) are either nonexistent or incomplete in some areas of the United States. In such areas, an inspection of the geologic strata does not yield enough evidence to conclusively determine when the most recent displacement occurred (see 46 FR 2812). An example was given of areas where glacial activity stripped the surficial ground cover and left highly resistant rock. It was stated that in situations of this sort, indirect methods such as a review of records of the location of epicenters of historic earthquakes, and an exemination of possible fault-related features expressed in Pleistocene and older deposits would have to be conducted to determine if Holocene faults are present within 200 feet of the

Since this standard was promulgated. EPA has learned that there are no faults east of the front range of the Rocky Mountains which have been conclusively identified as having had displacement during Holocene time. Geologists at the U.S. Geological Survey working on updated versions of the USGS Map confirm this finding.

Moreover, information obtained from the U.S. Geological Survey suggests important differences in the geology of the areas east and west of the eastern front of the Rocky Mountains, In the Eastern United States, there is a general lack of usable stratigraphic borizons upon which to base age dates of faulting. In addition, faults in the East do not break the surface as frequently as they do in the West. In the relatively few instances where faults are visable at the surface in the East, the exposed deposits are usually either older than Holocene age or they cannot be precisely dated. Under these geologic conditions, geologists cannot determine with certainty whether a fault has had displacement in Holocene time. The

Fecilities located in areas not listed in Appendix VI are presumed to be in compliance with the standard.

geologist can state with certainty only that the fault moved after the uppermost deposits that are displaced were laid down.

More importantly, in the Eastern United States the risk of any fault displacing and deforming the earth's surface is very low (e.g., the risk is two to three orders of magnitude lower than the risk of a 100-year flood). Even the largest historical shocks (e.g., New Madrid, Missouri and Charleston, South Carolina) have not broken the ground to form the obvious fault traces typical of West Coast faulting. Therefore, the probability is very low that displacement and deformation along Holocene faults, the very processes that the seismic standard was intended to protect against, would occur in the near future in the East.

Furthermore, it is dubious whether or not an investigation conducted in the East would turn up useful information about Holecene faulting. EPA stated in the January 12 preamble that where Holocene deposits are scarce, indirect methods can be used to determine if Holocene faults are present within 200 feet of the facility. EPA now realizes that it is doubtful whether these indirect methods wouldd indicate the presence of a fault, much less a Holocene fault, in the East. This is because, whereas some areas in the East have experienced repeated earthquakes, a surface fault has not been identified as being associated with the earthquakes even after extensive study.

EPA received comments on the interim final seismic standard which argued that we should not require a potentially costly demonstration where no documented evidence of Holoceme fault displacement exists. Some commenters suggested that where the USGS Map does not indicate the existence of Holocene faults, the seismic standard should not apply.

EPA agrees that a potentially costly demonstration should not be required where available evidence indicates that the presence of Holocene faults is unlikely. Furthermore, EPA believes that the USCS Map should only be used as a definitive guide insofar as it represents the best and most recent geological information available. Because no Holocane faults have been identified east of the front range of the Rocky Mountains, and because the risk of fault displacement and deformation is low in the East, EPA has decided to limit the requirement for a geological investigation to political jurisdictions which are west of the front range of the Rocky Mountains. Accordingly, Appendix VI to Part 284 is today being revised so that only owners and

operators of facilities which are located in the following states (or identified portions thereof) will be required to conduct a geologic investigation:
Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Utah, Washington, and Wyoming. The seismic standard in § 254.18(a) and the information requirements for permit applications in § 122.25(a)[11] remain unchanged.

Although RPA does not believe that fault displacement and deformation represent a significant risk for location of hazardous waste facilities east of the front range of the Rocky Mountains, the Agency continues to be concerned about possible damage to facilities due to ground motion and ground failure in these areas. EPA is continuing to consider the need for a location standard which addresses ground motion and ground failure (see 48 FR 2811 for discussion).

### III. Economic and Regulatory Impact

EPA has determined, pursuant to Executive Order 12291, that the amendment promulgated here today does not constitute a major rule and therefore, that no Regulatory Impact Analysis is required. This amendment results in a net reduction in regulatory burden and compliance costs for the regulated community. Geological investigations will no longer be required for hazardous waste management facilities located in those portions of the United States, east of the front range of the Rocky Mountains, which were listed in the original Appendix VI.

In compliance with Executive Order 12291, EPA submitted this notice to the Office of Management and Budget (OMB) for review.

The Regulatory Flexibility Act requires all Federal agencies to consider the effects of their regulations on small entities (i.e., small businesses, small organizations and small governmental jurisdictions). As this amendment reduces the net regulatory burden on new hazardous waste management facilities, regardless of their size, it will not have a significant economic impact on a substantial number of small entities. Therefore, a regulatory flexibility analysis is not necessary.

#### IV. Effective Date

Section 3010(b) or RCRA provides that EPA's hazardous waste regulations and revisions thereto take effect six months after their promulgation. The purpose of this statutory requirement is to allow persons affected by the regulations sufficient lead time to prepare to comply with major new regulatory requirements. Because this amendment eliminates an

existing regulatory requirement for some facilities. EPA believes that a six-month effective date is not needed to serve the purpose of Section 3010(b). Moreover, the Agency believes that an effective date six months after promulgation would defeat the purpose of this amendment. EPA is therefore making this amendment effective on November 23, 1981.

Dated: November 17, 1981.

Anne M. Gorssch,

Administrator.

PART 264—STANDARDS FOR OWNERS AND OPERATORS OF HAZARDOUS WASTE TREATMENT, STORAGE, AND DISPOSAL FACILITIES

For the reasons set forth in the preamble, Appendix VI to Part 284 of Title 40 of the Code of Federal Regulations is revised to read as follows:

Appendix VI to Part 284—Political Jurisdictions<sup>1</sup> in Which Compliancs With § 284.18(a) Must Be Demonstrated

#### Alaska

Aleutian islands
Anchorage
Bethei
Bristol Bay
Cordova-Valdes
Fairbanks-Port Yukoa
juneau
Kenai-Cook Inlet
Ketchikan-Prince of
Wales

Kodiak Lynn Canal-Icy Straits Palmer-Wasilla-Talkasna Seward Sitka Wade Hampton Wrangell Petersburg Yukon-Kuskokwim

# Arizona Cochise Greeniee Greham Yuma

#### California

ΑIJ

Colorado
Archulets Minorei
Consjos Rio Grande

Hawail

Sagueche

Hawaii

Hinadale

Bennock Franklin
Bear Lake Francat
Bingham Jefferson
Bonneville Medison
Caribou Onenda
Cassis Power
Clark Teton

#### Montana

Beaverbead Broadwater

Cascade Deer Lodge

These include counties, city-county consolidations, and independent cities. In the case of Alaska, the political jurisdictions are electron districts, and, in the case of Hawaii, the political jurisdiction listed is the island of Hawaii.

Parisonal
Calletin
Committe
Indianan
Lake
Levis and Clas
Madison
Magner

Acres Acres

#### Nove

AII

#### New Marke

Bernalillo Catron Crest Hidalgo Los Alamos Río Arriba Sandoval Septe Po Sierre Secorro Teas Tompeos

#### 

Beaver Fiute
Box Elder Bissh
Cache Salt Lake
Carboa Baspers
Davis Berier
Ducheese Bassett
Emery Toose
Garfield Utah
fran Wessington
Millard Wayse

#### Washington

Chelan
Clask
Cowfitz
Dougles
Ferry
Great
Grey Harbor
Jeffsreen
King
King
Kitties

Lengtha

Mason
Okanogan
Pacific
Force
San Juan Islamia
Skage
Skage
Skamania
Snohomish
Thurston
Wahkiakum
Whatcom
Vatema

#### Wyeming

Pressout Tetos
Lincolis Otata
Park Yallowstone National
Sublette Park

[FR Doc. 51-33788 FBed 11-33-60; 866 em]

BILLIMA COCK 6689-49-48

# 40 CFR Part 429

#### [WH-FRL 1938-2]

Timber Products Processing Point Source Category Effluent Limitations Guidelines, New Source Performance Standards and Pretreatment Standards

AGENCY: Environmental Protection Agency (EPA).

ACTION: Final Rule; Technical Amendment and Correction.

SUBSEARY: On January 28, 1981, EPA promulgated effluent guidelines and standards under the Clean Water Act for pollution discharges from the timber products industry. Shortly afterwards,

the American Hardboard Association (AHA) expressed concerns about the new source performance standard promulgated for the wet process hardboard subcategory. AHA also brought to EPA's attention as error in the definition of process wastern for the dry process bardboard, waster, finishing, particleboard, and as walls and planing with subcategories.

In response to AHA's concerns, EPA is today imiting the applicability of the new source performance standards for the wei process hardboard subcategory. It is also correcting the inadvertest error in the definition of process wastewater for the dry process hardboard and other subcategories.

EFFECTIVE DATE. These amendments will become effective December 23, 1881. In accordance with 40 CFR 18301 (45 FR 28048), these assendments shall be considered issued for purpose of judicial review at 1:00 p.m. Eastern time on December 7, 1881.

ADDWESS: The record for this rulemaking is available for public inspection and copying at EPA's Public information Reference Unit, Room 2404 (Rear) PM-213 (EPA Library), 401 M St., S.W., Washington, D.C. 20460. The EPA information regulation (40 CFR Part 2) provides that a reasonable fee may be charged for copying.

FOR FURTHER SEFORMATION CONTACT: Richard E. Williams, Environmental Protection Agency, Efficient Oxidelines Division (WH-552), 401 M St., S.W., Washington, D.C. 20480, (202) 428-2554. SUPPLEMENTARY DEFORMATIONS

### L New Source Performance Standards— Wet Process Hardboard Subcategory

On January 28, 1981, EPA promulgated effluent guidelines and standards for various subcategories in the timber products industry. These standards included a new source performance standard for the wet process hardboard subcategory, which required new sources to achieve no discharge of process wastewater pollutants (see 4) CFR 429.64, 48 FR 8290). Shortly after promulgation, the AHA requested KPA to reacind the wet process hardboard new source performance standard. AHA based its request on concerns about the Agency's proposed criteria for identifying "new sources." These cafteria define "new source" to include not only sources which are constructed where no other industrial sources presently exist (i.e., "greenfield" sites) but also sources which are constructed at the site of an existing source and efficer totally replace the processes causing the discharge at the existing source or are substantially independent

of the processes causing the discharge at the existing assure (see 45 FR 59343—59344. September 9, 1980). AHA pointed out that, in promulgating the new source performance standard for the wet process hardboard subcategory. EPA only evaluated the impact of this no discharge requirement on new sources constructed at "greenfield" sites—not on new sources created by the modification of existing sources. AHA suggested that, without undertaking further analysis, it was improper for EPA to require new sources other than "greenfield" facilities to meet the no discharge limitation.

EPA agrees that AHA's concerns have merit. Achievement of the no discharge new source performance atandard for the wet process hardboard subcategory depends, to a large extent, on the application of spray irrigation—a particularly land—intensive treatment technology. It was appropriate for EPA to assume that "greenfield"-type new sources have the flexibility to obtain the land required for spray irrigation. Without engaging in further analysis, however, it was inappropriate for EPA to assume that non-"greenfield" new sources would always have the ability to obtain the land required for spray irrigation. Consequently, EPA is amending the new source performance standard for the wet process hardboard subcategory to make it applicable only to "greenfield" facilities. As a result of this amendment, substantial modifications of existing sources, which might possibly qualify as new sources under the previous definition, will only be required to comply with the limitations applicable to existing sources. This change will be restricted to the wet process hardboard subcategory and will not affect the Agency's general definition of "new source" or the criteria for identifying the sources which fit within this definition. That definition and the accompanying criteria, once finalized, will be generally applicable to all other industrial subca tegories.

II. Process Wastewater Definition—Dry Process Hardboard, Veneer, Finishing, Particleboard, and Sawmills and Planing Mills Subcategories

In its January 28, 1981 promulgation of effluent guidelines and standards for the timber industry, EPA included, for the sake of completeness, a number of timber effluent guidelines and standards which had been previously promulgated in 1974-1978 and were not substantively amended by the 1981 promulgation.

Among these were the effluent guidelines and standards for the dry process hardboard, vencer, finishing,

PERCENT FREQUENCY BY DIRECTION

Direction/Site	Columbus	Cleveland	Mansfield	Dayton	Toledo	Youngstown
И	9.3	8.7	6.3	5.8	5.6	. 6.4
NNE	3.8	4.8	4.5	3.4	2.7	3.0
NE	4.3	3.8	3.2	3.3	4.2	, 3.4
ENE	3.5	1.9	. 2.1	3.2	5.7	2.7.
E	6.7	2.3	3.4	543	6.2	5.1
ESE	6.1	2.3	2.7	4.8	3.4	5.0
SE	7.0	3.4-	3.7	5.7	3.4	7.6
SSE	6.2	5.8	6.7 ·	4.5	3.7	4.4
S	12.9	16.5	12.9	12.5	10.3	10.6
SSW	6.7	11.6	11.6	9.3	7.2	6.1
SW	5.4	11.1	9.2	7.4	9.6	9.5
WSW	4.9	8.2	8.7	7.2	11.4	9.0
<del>រ</del>	8.5	5.4	10.9	10.7	10.4	10.7
HNW	4.6	4.7	5.4	6.0	6.8	. 5.4
MA	4.4	4.6	4.3	4.7	4.4	6.0
MMM	4.8	4.1	3.6	4.4	4.1	4.3
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Based on STARDATA, 1970-1974 except Parkersburg, which was based on L.C.D., 1979-198

